

**PERMIT NO. 952**

**GRANTED BY THE CITY OF LOS ANGELES**

**TO**

**INNOVATIVE TERMINAL SERVICES, INC.**

**(690 New Dock Street)**

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THIS PERMIT ("Agreement") is made and entered into this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between THE CITY OF LOS ANGELES, a municipal corporation ("City") acting by and through its Board of Harbor Commissioners ("Board"), and Innovative Terminal Services, Inc., a California corporation, 211 N. Marine Avenue, Wilmington, CA 90744 ("Tenant") (individually referred to as "Party" and collectively referred to as "Parties").

## ARTICLE 1

### Section 1. Agreement.

For good and valuable consideration, the receipt and sufficiency of which are acknowledged by the Parties, City hereby delivers, and Tenant hereby accepts, the Premises hereinafter described, subject to the terms, limitations, conditions, restrictions and reservations contained herein and in the Charter of the City of Los Angeles and the State Tidelands Trust and the terms and conditions provided herein.

### Section 2. Premises.

#### 2.1 Description.

2.1.1 Land and Improvements. The premises subject to this Agreement are as delineated and more particularly described on Drawing No. 45698 ("Premises"). Such drawing is on file in the office of the Chief Harbor Engineer of the Harbor Department ("Harbor Engineer") and are attached hereto as Exhibit "A".

2.1.1.1 Premises. The total area of the Premises is depicted on the Exhibits attached and is comprised of the following parcels:

Parcel 1	322,818 SF
Parcel 2*	14,986 SF
Parcel 3	81,357 SF
Parcel 4	33,000 SF
Parcel 5	148,004 SF
Parcel 6	110,226 SF
Parcel 7*	5,655 SF

\*Parcels 2 and 7 are an Emergency Fire Lane and must remain clear and unobstructed for emergency response vehicles.

#### 2.1.1.2 Deletion of Parcels 5, 6, and 7.

(a) Notwithstanding any of the other provisions of this Agreement, Tenant may delete Parcels 5, 6, and 7, together, from



the Premises upon, but no less than, 30 days' advance written notice to City, and that such deletion is subject to Tenant's prior compliance with the terms and conditions set forth in Article 2, Section 117 ("Parcel Deletion"). In no event shall Parcel Deletion include Parcels 1 through 4 as described in 2.1.1.1, and shall be deleted as Parcels 5, 6, and 7 collectively, and not singularly. Parcel Deletion shall become effective on the date Executive Director provides written notice to Tenant of Tenant's compliance with Article 2, Section 117 as to all deleted parcels, and any other applicable provisions of this Agreement and shall not require any further action by the Board. Parcel Deletion is not intended to and shall not cancel, waive, or otherwise alter any rights, requirements, duties, or obligations which may exist between City and Tenant in previous entitlements issued with respect to Parcels 5,6, and 7.

(b) For compensation purposes, such deletion shall become final upon the date Executive Director provides such written notice. Such parcels are delineated and more particularly described on Drawing No. 45698, which drawing is in file in the office of the Chief Harbor Engineer of the Harbor Department and attached hereto as "Exhibit A." Tenant's use and occupancy of any lands covered by Revocable Permit No. 16-40 and Space Assignment No. 19-07, of which Tenant acknowledges possessing true and correct copies, shall have ceased or shall cease (without waiving, releasing, altering, or affecting any right or obligation of Tenant or City), and Tenant's use and occupancy of such lands, and rights and obligations thereto, shall be pursuant to this Agreement. Upon Parcel Deletion, City will prorate rent using the following rate schedule:

Date	Per Square Foot Per Month
Effective Date	\$0.31
July 1,2022	\$0.35
July 1, 2023 and thereafter	Subject to Annual Adjustments pursuant to Article 1, Section 4.3.1

2.1.2 Existing City Improvements. The improvements on the Premises as of the Effective Date, which improvements are owned by City and subject to this Agreement, are identified in Exhibit "B", a copy of which is attached hereto. This Agreement refers to the totality of such City-owned improvements as "City's Improvements."

2.1.3 New Improvements. The Parties acknowledge that new improvements may be constructed on the Premises following the Effective Date. If, following the Effective Date, an improvement is added to the Premises, the Harbor Engineer shall: (i) revise Exhibit "B" to include both a depiction of such additional improvement and a statement identifying such improvement's ownership; (ii) renumber the revised Exhibit "B" (such that, for example, after any such revision and renumbering, Exhibit "B" becomes "Exhibit "B-1""); and (iii) transmit such revised and renumbered Exhibit "B" to Tenant. Upon City's transmittal to Tenant, such revised and renumbered Exhibit "B" shall be deemed to: (i) be incorporated into this Agreement without further action of the Board or the Council; and (ii) supersede any earlier issued iterations of Exhibit "B".

**2.2 Acceptance and Surrender.** It is understood and agreed that Tenant accepts the Premises "AS IS", "WHERE IS", with all faults and limitations, provided that nothing herein shall be construed to negate any provision of this Agreement. Tenant agrees to surrender the Premises upon the expiration or earlier termination of this Agreement in conformance with the terms and conditions of this Agreement.

### **Section 3. Effective Date; Term and Holdover.**

**3.1 Effective Date.** This Agreement shall become effective on the date of its approval by the City Council of City ("Council") pursuant to Section 245 of City's Charter, and execution by the Executive Director of the Harbor Department ("Executive Director"), after approval as to form and legality by the City Attorney of the City of Los Angeles ("Effective Date").

**3.2 Term.** The Term of this Agreement shall be for thirty-six (36) months commencing on the Effective Date and expiring thirty-six (36) months from the Effective Date ("Expiration Date"), unless sooner terminated in accordance with Agreement.

**3.2.1 Two Extension Options.** The Executive Director, acting in his/her sole and absolute discretion, shall have the option to extend the Term for up to two (2) consecutive twelve (12) month periods upon ninety (90) days prior written notice to Tenant, unless otherwise terminated pursuant to the terms of this Agreement. The Term shall not exceed an aggregate total of sixty (60) months.

**3.3 Holdover.** Should Tenant remain in possession of all or any part of the Premises after the expiration of this Agreement, with or without the express or implied consent of City, such occupancy shall be considered to be a "holdover" from month to month only, and not a renewal of this Agreement nor an extension for any further term, and in such case, rent or other monetary sums due hereunder for such expired Premises shall be payable in the amount of: (i) one hundred fifty percent (150%) of the Rent, as defined in Section 4 (Rent), payable for the last month of the term of this Agreement, or one hundred fifty percent (150%) of the fair market rental, whichever is higher, plus (ii) other charges payable hereunder at the time specified in the Agreement, and such month to month occupancy shall be subject to every other provision, covenant and agreement

contained herein, including any applicable Rental Adjustments set forth in Section 4. The foregoing provisions of this Subsection 3.3 are in addition to and do not affect the right of re-entry or any right of City hereunder or as otherwise provided by law, and in no way shall such provisions affect any right which City may otherwise have to recover damages, to the extent permissible by Applicable Law, from Tenant for loss or liability incurred by City resulting from the failure by Tenant to surrender the Premises, or for any other reason. Nothing contained in this Subsection 3.3 shall be construed as consent by City to any holding over by Tenant, and City expressly reserves the right to require Tenant to surrender possession of the Premises to City as provided in the Agreement, and to the extent permissible by Applicable Law, upon the expiration of this Agreement.

## **Section 4. Rent and Other Tenant Payments.**

### **4.1 Definitions.**

4.1.1 Compensation Year. "Compensation Year" shall mean a period of twelve (12) consecutive calendar months commencing on the Effective Date and every twelve-month period thereafter. Any period of less than twelve (12) consecutive calendar months shall be a partial year. For any partial year, the Rent shall be prorated on the basis of a three hundred and sixty-five (365) day year.

4.1.2 Tariff Charges. "Tariff Charges" shall mean all charges due and owing by Tenant under the Tariff on account of Tenant's use and occupancy of the Premises.

4.1.3 CPI-U. "CPI-U" shall mean the Consumer Price Index for All Items, All Urban Consumers for the Los Angeles-Long Beach-Anaheim, California area, 1982-84=100 as published by the U.S. Department of Labor, Bureau of Labor Statistics, or a successor index selected by the Executive Director in the Executive Director's sole reasonable discretion.

4.1.4 Base Rent. "Base Rent" shall mean the monetary sum, in U.S. Dollars, Tenant shall pay to City for its use and occupancy of the Premises per month, excluding Tariff Charges and other Additional Rent.

4.1.5 Additional Rent. "Additional Rent" shall mean all monetary sums, in U.S. Dollars, Tenant shall pay to City for applicable Tariff Charges, impositions, taxes, liens and fees imposed on the Premises or Tenant's leasehold interest in the Premises, including but not limited to late fees, and any additional monetary payments which Tenant is required to pay to City as more fully set forth in this Agreement.

**4.2 Base Rent.** As consideration for rights granted in this Agreement, Tenant shall pay to City in the manner herein described without abatement, deduction or offset, except as provided herein, the following Base Rent when due, whether or not an invoice for same has been received, the initial Base Rent of Two Hundred Fifteen Thousand Five

Hundred Seventy-Five Dollars and Fifty-five Cents (\$215,575.55), paid monthly due on or before the first day of each month.

4.2.1 Rent Credit. Tenant shall receive a rent credit for part of Tenant's costs associated with the environmental assessment of the Premises in the amount of Thirty-Six Thousand (\$36,000) Dollars ("Rent Credit") applied to Tenant's first month's payment of Base Rent.

**4.3 Rental Adjustments.** Provided this Agreement is not sooner terminated, the Base Rent shall be adjusted as follows:

7/1/2022 to 6/30/2023	\$243,391.75
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4.3.1 Annual Adjustments. Effective July 1<sup>st</sup>, 2023 and every July 1<sup>st</sup> thereafter (which date and subsequent annual anniversaries shall be referred to individually as "Annual Adjustment Date"), and annually thereafter, the Base Rent shall be adjusted as of the Annual Adjustment Date automatically without further notice to reflect the percentage increase (*but in no event decrease*), if any, in the CPI-U, or successor index selected by the Executive Director in the Executive Director's sole reasonable discretion ("Annual Adjustments") or 2%, whichever is greater. Such adjusted Base Rent shall be equal to the product obtained by multiplying the Base Rent amount in effect on the Annual Adjustment Date by a fraction, the numerator of which is the CPI-U index for the second month immediately preceding the Annual Adjustment Date, (the "Adjustment Index") and the denominator of which is the CPI-U index as it stood on the same month of the prior year (the "Base Index"). For accounting purposes, the Annual Adjustment shall be rounded to the nearest thousandth.

The formula illustrating the adjustment computation is as follows:

$$\text{Annual Adjusted Rent} = \text{Base Rent as of Annual Adjustment Date} \times \frac{\text{Adjustment Index}}{\text{Base Index}}$$

4.3.2 Five-Year Rate Adjustments.

4.3.2.1 Adjusted Base Rent. In addition to, and not as a substitute for the Annual Adjustments required in Subsection 4.3.1, above, as required pursuant to the Charter Section 607, on every fifth (5<sup>th</sup>) anniversary of the Effective Date ("Reset Date"), the Base Rent to be paid by Tenant for each five (5) year period, or any portion thereof, following the first five (5) year period of the Term ("Five-Year Adjusted Period") shall be adjusted to reflect the fair market rental for the Premises, *provided that in no case will the Base Rent be adjusted downward*. The Adjusted Base Rent shall be mutually agreed upon between the Parties at some time not more than nine (9) months and not less than three (3) months before each Reset Date. If the Parties are able to reach agreement on the Adjusted Base Rent, then

said agreement shall be presented as a recommendation to the Board. The Adjusted Base Rent shall be established by order of the Board, provided that if the Adjusted Base Rent has not been determined by the beginning of the Reset Date, the Base Rent for the new Five-Year Adjusted Period, subject to the final Adjusted Base Rent being negotiated or determined by the Appraisal Process, shall be one hundred twenty five percent (125%) of the Base Rent for the former period, and shall be paid in the same manner as provided in this Section 4 until completion of the negotiations or the Appraisal Process procedure set forth below.

4.3.2.2 Appraisal Process. If the Parties cannot agree on the amount of the Adjusted Base Rent by sixty (60) days prior to the Reset Date, the following process to determine the Adjusted Base Rent shall apply (the "Appraisal Process"); provided, however, that the Parties may continue to negotiate during the Appraisal Process period and, if an agreement is reached, the Appraisal Process shall be terminated and the negotiated amount shall be presented as a recommendation to the Board. The Appraisal Process shall be:

(a) No later than fifty (50) days prior to the Reset Date, the Executive Director shall provide to Tenant a written statement of the Executive Director's determination of the Market Rent for the Five-Year Adjusted Period ("Determination Due Date"). If Tenant disagrees with the Executive Director's determination, Tenant must provide to City a written objection within ten (10) calendar days of receipt of the Executive Director's determination. The written objection must include (i) the basis for Tenant's objection to the imposition of the new Adjusted Base Rent and (ii) Tenant's election to commence the Appraisal Process. Tenant acknowledges and agrees that Tenant's failure to submit a timely, written objection shall be deemed approval of the Executive Director's determination of the Adjusted Base Rent commencing on, and retroactive to, the Reset Date.

(b) If either (i) City has not provided Tenant with the Executive Director's determination of Market Rent by the Determination Due Date or (ii) Tenant has received the Executive Director's determination but elects to commence the Appraisal Process, within ten (10) calendar days following Tenant's notice of commencement of the Appraisal Process or ten (10) calendar days following the Determination Due Date, whichever is applicable, City and Tenant shall exchange the names and qualifications of three (3) appraisers, which appraisers shall possess the qualifications set forth in the attached Exhibit "C", and the Parties will utilize best efforts to agree, within ten (10) calendar days, upon a single qualified appraiser from that list whose scope of work shall be to determine

the Market Rent as set forth in Exhibit "D". The selected appraiser shall be instructed to determine Market Rent within sixty (60) calendar days of the selection. The Parties shall cooperate with the selected appraiser to provide information or documents in their respective custody or control which are reasonably necessary to generate an appraisal in conformity with Exhibit "D". City shall retain the selected appraiser; however, the costs incurred for the appraisal shall be borne equally by City and Tenant. Tenant agrees to reimburse City for half the fees and costs for the appraisal within fifteen (15) days of receipt of an invoice for payment of same.

(c) If, despite best efforts, City and Tenant cannot agree upon such single appraiser within the aforementioned ten (10) calendar days, or if the selected appraiser fails to transmit the required appraisal report within ninety (90) calendar days following the appraiser's retention, City and Tenant shall each retain their own appraiser, possessing the qualifications set forth in the attached Exhibit "C" to determine the Market Rent pursuant to Exhibit "D", within no more than sixty (60) days, unless extended by mutual written agreement of the Parties. Fees and costs of each appraiser shall be borne by the Party retaining that appraiser.

(d) Appraisals generated pursuant to Subsections 4.3.2.2 (b) and (c), above, shall be submitted to the Board along with the Executive Director's recommendation for the Board's determination of the appropriate Adjusted Base Rent, which determination shall be made at a public meeting. The Board shall review all the relevant facts and evidence, including the appraisals, submitted to it and shall then establish by order the Adjusted Base Rent to apply throughout the Five-Year Adjusted Period.

4.3.2.3 Reconciliation of Rent Payments. The monies paid at the one hundred twenty-five percent (125%) rate shall count against the Adjusted Base Rent which shall accrue from the date the Five-Year Adjusted Period commenced. If the Adjusted Base Rent is more than the Base Rent paid at the one hundred twenty-five percent (125%) rate, Tenant shall immediately pay City the difference due from the date the Five-Year Adjustment Period commenced to the date the Adjusted Base Rent is paid. If the Adjusted Base Rent is less than the amount paid at the one hundred twenty-five percent (125%) rate, Tenant shall be entitled to a credit against future sums owed to City under this Agreement. No interest shall accrue on the amount due to City or Tenant pursuant to this provision except to the extent Tenant fails to pay any deficiency within thirty (30) days of a billing from City. If Tenant's payments are delinquent, a delinquency charge shall accrue at the rate provided in Item No. 270 of the Tariff (or its successor),

currently consisting of simple interest of 1/30 of two percent (2%) of the invoice amount remaining unpaid each day.

**4.4 Reconciling Rent for Final Measurements.** The Parties agree that the Rent shall be adjusted to reflect any changes in the final measurement of the Premises, or any improvements thereon, which are made pursuant to Subsection 102.3 (Modifications of Premises and Documents), without further action of the Board or the Council. City shall inform Tenant of the revised Rent by written notice and affix such notice as an Attachment to this Agreement.

**4.5 No Waiver.** It is agreed by the Parties that failure by the Parties to comply timely with the Rent adjustment procedures herein shall not be construed to constitute a waiver of the right of City to a Rent adjustment.

**4.6 Additional Rent.**

4.6.1 Payment; Definition of Rent. In addition to any other consideration under this Agreement, including without limitation any Base Rent, Tenant shall pay to City all Additional Rent, as listed below, when due. Base Rent and Additional Rent shall collectively be referred to herein as "Rent". All Rent shall be paid to City at the address to set forth in Subsection 103.2.2 (Payments), or at such other place as City may from time to time designate.

4.6.2 Tariff. Tenant shall pay City for any applicable Tariff Charges as Additional Rent.

4.6.3 Taxes and Impositions.

(a) Tenant shall timely pay all Taxes imposed with respect to this Agreement, the use or the operation of the Premises, including, without limitation, any documentary or other transfer or sales taxes, property or possessory interest taxes and any City of Los Angeles Business Tax applicable to the use and operation of the Premises. City reserves the right, without being obligated to do so, to pay the amount any such Taxes not timely paid by Tenant, and the amount so paid by City shall be deemed Additional Rent hereunder, due and payable by Tenant immediately upon demand by City.

(b) Tenant hereby agrees to pay as Additional Rent such assessments, fees and charges as shall be set by the Board and that shall be reasonable and not unjustly discriminatory.

(c) Notwithstanding this Subsection 4.6.3, Tenant does not waive its right to seek relief from a court of competent jurisdiction to the extent that such Tax, assessment, fee or charges are contrary to Applicable Law.

4.6.4 Utilities and Services. Tenant shall be liable for and shall pay all charges for services furnished to the Premises, including, without limitation, heat, power, telephone, water, light, janitorial services, security services and trash collection services, and any other services in connection with its occupancy of the Premises, including, without limitation, deposits, connection fees or charges and meter rentals required by the supplier of any such service. If any such services are not separately metered or billed to Tenant, Tenant shall pay a reasonable proportion, to be determined by City, of all charges jointly metered or billed. There shall be no abatement of Rent and City shall not be liable in any respect whatsoever for the inadequacy, stoppage, interruption or discontinuance of any utility or service due to riot, strike, labor dispute, breakdown, accident, repair or other cause beyond City's reasonable control or in cooperation with governmental request or directions. To the extent such utilities and services are provided by City, payment for same shall be Additional Rent.

4.6.5 Rent for Non-permitted Uses. Use of the Premises for purposes not expressly permitted herein, whether approved in writing by the Executive Director or not, may result in additional charges, including charges required by the Tariff, as it may be amended or superseded. Imposing additional charges and receiving Additional Rent for non-permitted uses shall not waive City's rights to declare a default or limit City's remedies under this Agreement and at law.

4.6.6 Rent on New Improvements. With respect to additions, improvements or alterations to the structures on the Premises authorized by City and made by Tenant, at Tenant's sole expense, during the Term of this Agreement, Tenant shall not be charged Rent for the rental value thereof unless and until title to said additions, improvements, or alterations revert to City pursuant to the terms of this Agreement or by operation of law.

4.6.7 Other Amounts. Any amounts due and owing from Tenant that arise from or are related to its undertaking of the Permitted Uses or its occupancy of the Premises, including without limitation, service charges for services provided by the Harbor Department.

4.6.8 City's Net Return. The Parties intend that this Agreement shall constitute a "triple net lease" so that the Rent shall provide City with a "net" return for the Term, free of any expenses or charges with respect to the Premises, except as specifically provided in the Agreement. Accordingly, Tenant shall pay as Additional Rent and discharge, before delinquency (but subject to the terms of this Agreement, including any applicable cure periods), each and every item of expense, of every kind and nature whatsoever, including Impositions or other amounts customarily paid by a tenant under a "triple net lease" or otherwise payable by Tenant in accordance with the terms of this Agreement.



**Section 5. Uses.**

**5.1 Permitted Uses.** The Premises shall be used for the following purposes and no others: cargo support, including but not limited to, off-terminal marine chassis depot, including storage, maintenance, repairs, staging, start/stop, and other incidental purposes to the operations of the chassis depot (“Permitted Uses”).

**5.2 Limitations on Use.** Tenant shall not use or allow the Premises or any part thereof to be used for purposes other than the Permitted Uses without the prior written approval of the Board (which approval may be withheld by the Board in its sole and absolute discretion), and subject to such restrictions, limitations and conditions as may be imposed by the Board.

**5.3 Operating Covenant.** Tenant shall manage and operate the Premises, or cause them to be managed and operated, as a maritime support facility, in a manner consistent with the manner and standard by which comparable facilities are managed and operated, and shall perform maintenance and capital improvements necessary to maintain the Premises in a manner comparable to that in which comparable facilities are maintained.

**Section 6. Notices.**

The Parties shall send all notices or other communication necessary under this Agreement in writing by personal service, or express mail, Federal Express, DHL, UPS or any other similar form of airborne/overnight delivery service, or mailing in the United States mail, postage prepaid, certified and return receipt requested, addressed to the Parties at their respective addresses as follows:

If to City (or its Harbor Department):

Port of Los Angeles  
425 South Palos Verdes Street  
San Pedro, California 90731  
Attn: Executive Director

with copies to:

Los Angeles City Attorney’s Office  
425 South Palos Verdes Street  
San Pedro, California 90731

and to:

Real Estate Division  
P.O. Box 151  
San Pedro, CA 90733-0151

If to Tenant: Innovative Terminal Services  
211 N. Marine Avenue,  
Wilmington, CA 90744  
ATTN: Kent Philips

\*

Any such notice shall be deemed to have been given upon delivery or two business days after deposit in the mail as aforesaid. Either Party may change the address at which it desires to receive notice upon giving written notice of such request to the other Party.

**Section 7. Reductions in Rent and Construction on the Premises.**

Tenant acknowledges and agrees that should the rent charged under this Agreement include a reduction from fair market value (in the form of a waiver, forgiveness, credit or otherwise) in connection with Tenant's performance of construction on the Premises, such construction shall be deemed a public work under Section 1720 of the California Labor Code, thereby triggering all requirements applicable to such public works, including but not limited to the payment of prevailing wages in the performance of such construction.

**ARTICLE 1 – Sections 8 to 99, intentionally omitted.**

## **ARTICLE 2 – STANDARD PROVISIONS**

### **Section 100. Applicability of Article 2.**

Notwithstanding anything in this Agreement to the contrary, in the case of any inconsistency between Article 1 and Article 2 of this Agreement, the provisions of Article 1 shall be controlling.

### **Section 101. Definitions.**

All capitalized terms used and not defined in Article 1 or Article 2 shall have the meaning ascribed to them in the Glossary of Defined Terms attached hereto and incorporated herein as Attachment 1.

### **Section 102. Limitations and Additional Provisions Related to Premises.**

**102.1 Compliance with Applicable Laws; Executive Directives.** At all times in its use and occupancy of the Premises and in its conduct of operations thereon, Tenant, at its sole cost and expense, shall comply with all Applicable Laws. In addition to the foregoing, Tenant shall comply immediately with any and all directives issued by the Executive Director under authority of any such Applicable Law. It is the Parties' intent that Tenant shall make, at Tenant's sole cost and expense, any and all alterations, improvements and changes, whether structural or nonstructural, that are required by Applicable Law.

**102.2 Reservations.** This Agreement and the Premises are and shall be at all times subject to the reservations and exclusions listed below and additional reservations City may reasonably require after the Effective Date, of which Tenant shall receive advance written notice, for which Tenant shall receive no compensation unless otherwise provided in this Agreement.

102.2.1 Utilities or other Rights-of-Way. Rights-of-way for sewers, pipelines (public or private), conduits for telecommunications, electric, gas, and power lines, as may from time to time be determined to be necessary by the Board, including the right to enter upon, above, below or through the surface to construct, maintain, replace, repair, enlarge or otherwise utilize the Premises for such purpose, without compensation or abatement of Rent and with as minimal interference with the Permitted Uses as possible.

102.2.2 Streets and Highways. Rights-of-way for streets and other highways and for railroads and other means of transportation which are apparent from a visual inspection of the Premises or which shall have been duly established or which are reserved herein, provided that the exercise of such right after the Effective Date does not materially interfere with the Permitted Uses.

102.2.3 Telecommunication and Utility Equipment. Access, temporary occupancy and the right of City or third-parties selected by City in its sole and

absolute discretion to install, operate, maintain and repair telecommunication and utility equipment, without compensation or abatement of Rent unless otherwise agreed to in writing by City. City shall minimize any interference with the Permitted Uses to the extent possible.

102.2.4 Homeland Security. Access, temporary occupancy and other rights reasonably necessary to comply with homeland security or related requirements of local, state and federal law enforcement agencies or the Harbor Department. City reserves the right to install, maintain and operate on the Premises equipment related to homeland security and/or public safety with seventy-two (72) hours prior written notice to Tenant without compensation or abatement of Rent unless otherwise agreed to in writing by City.

102.2.5 Environmental Initiatives. Access, temporary occupancy and other rights reasonably necessary to comply with environmental initiatives and/or policies of City, local, state and federal agencies or the Harbor Department, provided that the exercise of such rights do not materially interfere with the Permitted Uses.

102.2.6 Prior Exceptions. All prior exceptions, reservations, grants, easements, leases or licenses of any kind whatsoever that appear of record in the office of the Recorder of Los Angeles County, California, or in the official records of City or any of its various departments.

102.2.7 Mineral Rights Excluded. All minerals and mineral rights of every kind and character now known to exist or hereafter discovered, including, without limiting the generality of the foregoing, oil, gas and water rights, together with the full, exclusive and perpetual rights to explore for, remove and dispose of said minerals, or any part thereof, from the Premises, without, however, the right of surface entry on the Premises.

### **102.3 Modification of Premises and Documents.**

102.3.1 Final Measurement. The Premises may be subject to final measurement by City. To the extent that the final measurements differ from Exhibit "A", the Harbor Engineer shall: (i) revise Exhibit "A" to reflect the correct measurements of the Premises and any improvements thereon; (ii) renumber the revised Exhibit "A" as Exhibit "A-1"; and (iii) transmit Exhibit "A-1" to Tenant. Upon City's transmittal to Tenant, such revised and renumbered Exhibit "A-1" shall be deemed to: (i) be incorporated into this Agreement without further action of the Board or the Council; and (ii) supersede Exhibit "A".

102.3.2 Modifications. Addition or deletion of Premises for which Tenant is charged, not to exceed a cumulative total of ten percent (10%) of the originally designated Premises, may be made by mutual agreement of the Parties, so long as such change in area is not a temporary use of substitute premises as set forth

in Tariff Item 1035 (or its successor) or not temporary as determined by City in its sole reasonable discretion. Such addition or deletion shall be by written amendment and shall specify appropriate adjustments in Rent and shall not require approval by the Board or the Council unless the modification involves an amount in excess of the Executive Director's contracting authority, as that amount may be amended from time to time, in which case prior Board approval shall be required. The Executive Director shall revise and replace the following: (i) Section 2 (Premises) (ii) Section 4 (Rent and Other Tenant Payments), and (iii) Exhibit "A", as necessary to conform to these modifications.

**102.4 Inspection by Tenant; No Warranties by City.** Tenant acknowledges that it has inspected the Premises in contemplation of entering into this Agreement and occupying the Premises for the Permitted Uses, including the construction of improvements, if any, and acknowledges and agrees that:

(a) Tenant is accepting the Premises as set forth in Subsection 2.2 (Acceptance and Surrender), that is, without representation or warranty with respect thereto, express or implied, except only as set forth in this Agreement, with regard to the physical or other condition of the Premises, including the existence of any Hazardous Substances thereon, soils condition, the presence or absence of archeological or historical remains or suitability for the intended use;

(b) Tenant has determined for itself, that the Premises are suitable for the Permitted Uses; and

(c) No individual of, or affiliated with, City has made any representation or warranty with respect to the Premises or improvements existing or planned or to the suitability of the Premises for the Permitted Uses, unless the nature and extent of such representation or warranty is described in writing and attached hereto.

**102.5 No Conveyance of Fee Estate.** The Parties acknowledge and agree that this Agreement does not transfer or convey the Fee Estate of the Premises, and that any grant or conveyance under this Agreement is solely of the leasehold estate thereto.

**102.6 Temporary Assignments.** By issuing this Agreement, City does not grant to Tenant the sole or exclusive right to use the Premises. Whenever the Premises, excepting the office building occupied by Tenant, if any, are not being used, in whole or in part, by Tenant for the Permitted Uses or if City requires the Premises on a project or emergency basis, the Executive Director shall have the right, subject to Tenant's consent (which consent shall not be unreasonably withheld), to make temporary assignments to other persons, firms and/or corporations to use the Premises, or any part thereof, as provided in the Tariff. Any direct charges accruing against Tenant from the use of the Premises by a temporary user, and the allocated costs of utilities which Tenant furnishes to such temporary user, shall be paid by such temporary user. City and Tenant agree to negotiate in good faith regarding any other terms and conditions of such temporary assignments.

**102.7 Waste or Nuisance.** Tenant shall not use the Premises in any manner that constitutes waste or nuisance.

**102.8 Load Limits.** City warrants and represents that wharfs and paving on the Premises will support the load limits specified in Exhibit "B." Tenant shall allow no loading in excess of such limits without the prior written consent of the Harbor Department, which consent may be provided by a Harbor Engineer's Permit or a Heavy Lift Permit. Upon receipt of a notice from City that the load limits on Exhibit "B" have been exceeded, Tenant immediately shall take all appropriate steps to correct such condition and, irrespective of such notice, shall, as between City and Tenant, be solely responsible for any cost, expense or damage resulting from exceeding the load limits.

**102.9 Wilmington Truck Route.** City and Tenant acknowledge that Tenant does not directly control the trucks serving the Premises. However, Tenant shall make its best efforts to notify truck drivers, truck brokers and trucking companies that trucks serving the Premises must confine their route to the designated Wilmington Truck Route ("Wilmington Truck Route" attached hereto as Exhibit "E"). The Wilmington Truck Route may be modified from time to time at the sole and absolute discretion of the Executive Director. The Harbor Department shall provide Tenant with notice of any modifications to the Wilmington Truck Route.

**102.10 Maintenance Areas.** Tenant shall not conduct or permit any maintenance of mobile or portable equipment on the Premises except in full compliance with all Applicable Laws attendant to the Premises and its use, including without limitation, all Environmental Laws and Mitigation Measures as hereinafter defined.

**102.11 Responsibility for Financing.** Tenant covenants that any financing required in connection with the use the Premises, including without limitation development and operation, shall be the sole responsibility, cost and expense of Tenant.

**102.12 Tenant to Supply Necessary Labor and Equipment.** Tenant shall, at its sole cost and expense, provide all equipment and labor necessary to undertake the Permitted Uses; provided, however, that nothing contained herein shall prevent Tenant from using such equipment as may be installed by City at the Premises upon the payment to City of all applicable charges.

**102.13 Liens; Indemnity.** Except where contested by Tenant in good faith in a court of competent jurisdiction, and except for non-delinquent liens arising from taxes or tax assessments, Tenant shall keep the Premises free from liens of any kind or nature arising out of its use and/or occupancy of the Premises, including any liens arising out of any labor performed for or materials furnished to or on behalf of Tenant on the Premises. Tenant agrees that it shall at all times defend and indemnify City from and against all claims for labor or materials in connection with the construction, erection or installation of improvements made by Tenant upon the Premises, or from additions or alterations made to any improvements on the Premises, or the repair of the same, by or at the direction of

Tenant, and the costs of defending against any such claim, including reasonable attorneys' fees. If a mechanic's or other similar lien shall at any time be filed against City's interest in the Premises, which is not contested by Tenant in good faith in a court of competent jurisdiction, Tenant shall: (i) cause the same to be discharged of record within thirty (30) days after the date of filing the same; or, (ii) otherwise free the Premises from such claim or lien and any action brought to foreclose such lien; or, (iii) promptly furnish City with a bond in the amount of the lien plus twenty-five percent (25%) thereof issued by a surety company, acceptable to the Executive Director, securing City against payment of such lien and against any and all loss or damage whatsoever in any way arising from the failure of Tenant to discharge such lien.

**102.14 Tenant Telecommunications Equipment.** Tenant shall coordinate with the Harbor Department and any other applicable Governmental Agencies prior to installing any radio or telecommunications equipment to ensure that frequencies do not interfere with public safety communications or radio frequencies.

**102.15 Property of Tenant.** All property brought onto the Premises by Tenant, or in the care, custody or control of Tenant, to undertake the Permitted Uses or otherwise shall be and remain the property of Tenant, subject to the terms and conditions contained herein, and shall be there at the sole risk of Tenant. Tenant hereby waives all claims against City with respect to such property, except for injury or damage to such property caused by City's sole negligence or willful misconduct.

**102.16 Quiet Enjoyment.** City covenants that, so long as this Agreement has not expired or terminated in accordance with its terms and Applicable Laws attendant to the Premises and its use, Tenant shall and may peaceably and quietly have, hold and enjoy the Premises for the Term so long as the Premises are used in compliance with the State Tidelands Trust. By such covenant, City makes no representation or warranty as to the condition of title of the Premises or the suitability of the Premises for the Permitted Uses. Tenant's sole remedy for breach of this Subsection 102.16 shall be an action for specific performance.

**102.17 Local Job Participation; Living Wage.** In furtherance of the policies of the Board and the Council, Tenant shall strive to achieve the goals of local job participation in the use and operation of the Premises and the Living Wage Ordinance of the City of Los Angeles as defined in the City of Los Angeles Administrative Code Section 10.37.

**102.18 Provision of Safe Environment.** Tenant shall provide for a safe environment on the Premises and follow the Harbor Department's Homeland Security rules and regulations, including without limitation, Tariff Section 2, item 298, (or its successor) and all other Applicable Laws.

## **Section 103. Additional Provisions Related to Rent.**

**103.1 Premises Subject to Tariff.** Tenant accepts the Premises and shall undertake the Permitted Uses subject to each and every of the terms and conditions provided in this Agreement, and to each and every of the applicable rates, terms and conditions of the Tariff as it now exists, or as it may be temporarily amended or permanently amended or superseded. Tenant represents and warrants that it has received, read and understands the rates, terms and conditions of the Tariff and covenants that, at all times during the term of this Agreement, it shall maintain a complete and current Tariff at the address set forth in Section 6 (Notices). Except as otherwise set forth in this Agreement, Tenant is contractually bound by all Tariff rates, terms and conditions as if the same were set forth in full herein. City in its sole and absolute discretion shall determine if a conflict exists between a provision of this Agreement and a Tariff provision. In the event of such conflict, this Agreement shall at all times prevail.

**103.2 Requirements Applicable to Tenant's Payment of Rent.**

103.2.1 Tenant's Obligation to Pay; No Right of Set-Off. Notwithstanding any other provision of this Agreement, Tenant's obligations to pay Rent to City according to the terms and conditions of this Agreement shall be absolute and unconditional and shall be unaffected by any circumstance, including, without limitation, off-set, counterclaim, recoupment, defense or other right which Tenant may have against City.

103.2.2 Payments. Tenant shall render its payments at the Harbor Department Administration Building or any other place that City from time to time may designate in writing. All payments due to City under this Agreement shall be made in U.S. Dollars, either in the form of a check (drawn on a bank located in the State of California) or via electronically transmitted funds.

103.2.3 Proration of Payments. If any payment by Tenant is for a period shorter than one calendar month, the Rent for that fractional calendar month shall accrue on a daily basis for each day of that fractional month at a daily rate equal to 1/365 of the total annual Rent then due and payable. All other payments or adjustments that are required to be made under the terms of this Agreement and that require proration on a time basis shall be prorated on the same basis.

103.2.4 Labor Disturbance. If, by reason of strikes, other labor disputes, lockouts, or other work stoppages of which Tenant did not directly or indirectly cause and/or to which Tenant is not a party ("Labor Disturbance"), occurring at the Premises and lasting more than (30) days, Tenant is prevented from making substantial use of Premises to undertake the Permitted Uses, the Rent for the period during which the Labor Disturbance occurs shall be proportionately adjusted, commencing the thirty-first (31<sup>st</sup>) day after commencement of such Labor Disturbance, provided Tenant has, prior to such date, given City written notice of such Labor Disturbance including its assertion that it has not caused such disturbance, and such reduction shall be applicable from and after said thirty-first



(31<sup>st</sup>) day until Tenant is able to make substantial uses of the Premises to undertake the Permitted Uses.

103.2.5 Force Majeure Not Applicable. Any Force Majeure provision or principle, including, without limitation, the provisions of Section 110 (Force Majeure), shall not apply to any of Tenant's Rent Payment Obligations.

#### 103.2.6 Deposits.

103.2.6.1 Security Deposit. As a condition precedent to the effectiveness of this Agreement, Tenant shall deposit with the Board a sum equal to three times the Monthly Rent due for the first full three months of the Agreement. Said deposit shall be in cash or a standby letter of credit, or equivalent, in a form approved by City. Said deposit may be used to cover delinquent Rent and other obligations under this Agreement. This deposit shall not, in any way, reduce Tenant's liabilities under this Agreement unless specifically stated in writing by City and approved by the Board. In the event that all or part of such deposit is used to apply against Rent due and unpaid or other obligations due and unpaid, Tenant shall immediately make another deposit in an amount equal to the amount so used, so that at all times during the term of this Agreement said deposit shall be maintained in the sum stated above, or as increased pursuant to Subsection 103.7.6.2, below. Upon the expiration or earlier termination of this Agreement, the Executive Director may release the standby letter of credit or its equivalent and refund the remaining one hundred percent (100%) of the Security Deposit to Tenant, provided that Tenant is in compliance with all the terms and conditions of this Agreement.

103.2.6.2 Increased Security Deposit. If, for any reason, Tenant's Monthly Rent obligation to City is increased in excess of ten percent (10%), the amount of Tenant's Deposit shall, within thirty (30) days after receiving written notice from City, correspondingly be increased to a sum three (3) times the new Monthly Rent obligation.

#### 103.2.6.3 [Intentionally Omitted.]

103.2.7 Delinquent Payments. Payments required to be made by this Section 103 which have not been paid within ten (10) calendar days of the date such payments are due shall be subject to a delinquency charge which shall accrue at the rate provided in Item No. 270 of the Tariff, currently consisting of simple interest of 1/30 of two percent (2%) of the amount remaining unpaid each day. Tenant acknowledges that it knows the day of the month its payments hereunder are due and that such payments are due to be made from that date and not the date of City's invoice, if any. The delinquency service charge shall be imposed whether or not a deposit required by Subsection 103.2.6, above, is applied to the amount due. City has the unqualified right, upon thirty (30) days'

prior written notice to Tenant, to change the level of the delinquency service charge.

## **Section 104. Tenant's Environmental Obligations During Term of Agreement.**

### **104.1 Intentionally Blank**

### **104.2 Tenant Responsibility for Existing Condition of the Premises.**

104.2.1 Existing Conditions. Tenant has accepted the Premises in an "AS IS" condition as set forth Subsection 2.2 (Acceptance and Surrender). As such, Tenant shall be responsible for remediation of all contaminants which may be on, below or emanating from the Premises whether or not such contamination occurred before or after Tenant took possession of the Premises unless a Baseline Report for the Premises is obtained as set forth below.

104.2.2 Baseline Conditions, City's Baseline Report. Notwithstanding Subsection 104.2.1, above, Tenant acknowledges and agrees that it has reviewed and approved the document attached hereto as Exhibit "F-1", if any, which document constitutes the written depiction of the environmental condition of the Premises on the Effective Date ("Baseline Condition") and which hereinafter shall be referred to as the "City's Baseline Report." Tenant shall be responsible only for contamination above the Baseline levels for those contaminants covered in the City's Baseline Report. Any contaminates not analyzed in the Baseline Report, any contamination which occurred as a result of Tenant Prior Occupancy as set forth in Subsection 104.2.4 (Existing Contamination), and any Term Contamination shall be the sole responsibility of Tenant.

104.2.3 Baseline Conditions, Tenant's Baseline Report. Notwithstanding Subsection 104.2.1, above, if the City has not determined the Baseline Condition and Tenant elects, at its sole cost and expense, to prepare a Baseline Report depicting the Baseline Condition, and the Tenant's Baseline Report is approved by City, in its sole but reasonable discretion, ("Tenant's Baseline Report") attached hereto as Exhibit "F-2", if any, then the Tenant's Baseline Report shall establish the condition of the Premises as of the Effective Date. Tenant shall be responsible only for contamination above the Baseline levels for those contaminants covered in the Tenant's Baseline Report. Any contaminates not analyzed in Tenant's Baseline Report, any contamination which occurred as a result of Tenant Prior Occupancy as set forth in Subsection 104.2.4 (Existing Contamination) and any Term Contamination shall be the sole responsibility of Tenant.

104.2.4 Existing Contamination. City and Tenant acknowledge that prior to the Effective Date, the Premises, or portions thereof, were occupied by Tenant, or an Affiliate of Tenant, or by an assignor or transferor to Tenant, under an entitlement or agreements separate from this Agreement ("Tenant Prior Occupancy") and that as a result of such prior use and occupancy, the Premises

(and/or areas adjacent to the Premises) on the Effective Date may possess contamination (“Existing Contamination”).

### **104.3 Tenant Responsibility for Term Contamination.**

104.3.1 Remediation. Tenant shall remediate or cause the remediation of any Term Releases, such that the affected Premises (and/or areas adjacent to the Premises) are left: (a) in the Baseline Condition if a Baseline Report was prepared and approved by City or (b) in an environmental condition that fully complies with the guidelines of, orders of, or directives of the Governmental Agency or Agencies that have assumed jurisdiction, if any, whichever of the two is stricter, and in conformance with Harbor Department then existing remediation procedures, and free of encumbrances, such as deed or land use restrictions, except those that may be imposed as a result of the presence of Environmentally Regulated Material despite Tenant’s compliance with the foregoing requirement. As between City and Tenant, Tenant shall bear sole responsibility for all Term Contamination and any costs related thereto.

104.3.2 Tenant Responsibility; Indemnity. Except for Baseline Conditions which are depicted in the City’s Baseline Report or the Tenant’s Baseline Report, as the case may be, which are not Existing Contamination which occurred during Tenant Prior Occupancy, or conditions of the Premises resulting from City or third-party activities on or about the Premises when Tenant is required by this Agreement to allow City or such third-parties onto the Premises under a temporary assignment pursuant to Subsection 102.6 (Temporary Assignments), or whose access to the Premises has been requested by City pursuant to Subsection 102.2 (Reservations), Tenant bears sole responsibility for full compliance with any and all Applicable Laws regarding the use, storage, handling, distribution, processing, and/or disposal of Environmentally Regulated Material, regardless of whether the obligation for such compliance or responsibility is placed on the owner of the land, on the owner of any improvements on the Premises, on the user of the land, or on the user of the improvements. Except for Baseline Conditions which are not Existing Contamination which occurred during Tenant Prior Occupancy, or conditions of the Premises resulting from City or third-party activities on or about the Premises when Tenant is required by this Agreement to allow City or such third-parties onto the Premises as described above, Tenant agrees that any claims, damages, fines or other penalties asserted against or levied on City and/or Tenant as a result of noncompliance with any Environmental Laws shall be the sole responsibility of Tenant and that Tenant shall indemnify and hold City harmless from any and all such claims, damages, fines and penalties, as well as any costs expended to defend against such claims, damages, fines and penalties, including attorneys’ and experts’ fees and costs that result from Term Contamination or Tenant’s non-compliance with any applicable Environmental Law during the Term regarding the use, storage, handling, distribution, processing and/or disposal of Environmentally Regulated Material. City shall provide Tenant with sixty (60) days’ notice to comply with any claims, damages, fines and penalties, or if Tenant has not complied with such claims, damages, fines and

penalties, or if Tenant has not requested a meet and confer to discuss compliance within such sixty (60) days, then City, at its sole option, may pay such claims, damages, fines and penalties resulting from Tenant's noncompliance with any of the Environmental Laws, and Tenant shall indemnify and reimburse City for any such payments. As between Tenant and City, City shall indemnify and hold Tenant harmless, to the extent allowed by Applicable Law, from any and all such claims, damages, fines and penalties, including attorneys' and experts' fees and costs, that result from any Baseline Condition other than for Existing Contamination which occurred during Tenant Prior Occupancy whether or not the Existing Contamination was included in the Baseline Report.

104.3.3 Rebuttable Presumption When Baseline Report Prepared. Tenant acknowledges and agrees that a presumption shall exist that any contamination not specifically depicted and analyzed in the City's Baseline Report or the Tenant's Baseline Report, as the case may be, constitutes Term Contamination for which, as between City and Tenant, Tenant is solely responsible. City shall provide written notice of the existence of any such contamination to Tenant. Tenant may rebut such presumption by providing to City, within ninety (90) days of City's written notice, conclusive evidence demonstrating that such contamination is not Term Contamination. Otherwise, such presumption shall be deemed confirmed making Tenant solely responsible for such contamination. Whether any information submitted by Tenant rebuts the aforementioned presumption shall be within the City's sole and absolute discretion, exercised reasonably and in good faith. This provision shall survive the expiration or earlier termination of this Agreement.

#### **104.4 Tenant Obligations In the Event of a Term Release.**

104.4.1 Duty to Remediate. Upon discovery of any Term Contamination, Tenant shall, at its sole cost remediate the Term Contamination in accordance with Subsection 104.3 (Tenant Responsibility for Term Contamination).

104.4.2 Compliance with Government Agency Orders. If Applicable Law requires Tenant to report a Term Release to a Governmental Agency, Tenant shall so report and thereafter, if such Governmental Agency asserts jurisdiction over such Term Release, Tenant shall, at its sole cost and expense as between City and Tenant, manage the Term Release consistent with Environmental Laws and the directives of the Governmental Agencies with jurisdiction, if any. If a schedule for such Term Release management is not prescribed by Environmental Laws, or the directives of the Governmental Agencies with jurisdiction if any, the Harbor Department shall reasonably prescribe such schedule in consultation with Tenant.

104.4.3 Site Characterization. Whether a Governmental Agency asserts jurisdiction over Term Contamination or not, Tenant shall characterize (including sampling and analysis) and remediate all Term Contamination in conformity with Environmental Laws to levels determined in the sole discretion of the Executive Director. Relevant and current guidance documents published by regulatory

agencies (including but not limited to, the South Coast Air Management District, the Los Angeles Regional Water Quality Control Board, the Los Angeles Fire Department (local CUPA), the California Department Toxics Substances Control, the United States Environmental Protection Agency, and the Occupational Safety and Health Administration) shall be referenced and incorporated into work plans, site investigations and risk evaluations, and during the development and implementation of Term Contamination cleanup measures. Project planning, execution, and documentation shall be compliant with the terms as set forth in the National Contingency Plan (CFR 40, Part 300). The Tenant shall provide copies of project-relevant documents (including Work Plans, Reports, Remedial Action Plans, and Progress Reports) for Harbor Department review and approval prior to implementing field investigations, studies, or cleanups.

104.4.4 Copies to City. Tenant shall provide copies to City of all communications between Tenant (and any third-parties acting for or on its behalf), and any Governmental Agency with jurisdiction regarding all Term Releases and Term Contamination.

104.4.5 City's Rights to Remediate. If Tenant fails to wholly or partially fulfill any obligation set forth in Subsection 104.3 (Tenant Responsibility for Term Contamination), City may (but shall not be required to) take all steps it deems necessary to fulfill such obligation. Any action taken by City shall be at Tenant's sole cost and expense and Tenant shall indemnify and pay for and/or reimburse City for any and all costs (including any administrative costs) City incurs as a result of any such action it takes.

**104.5 Environmentally Regulated Material on Premises.** Tenant shall not cause or permit any Environmentally Regulated Material to be generated, brought onto, handled, used, stored, transported from, received or disposed of (hereinafter sometimes collectively referred to as "handle" or "handled") in or about the Premises, except for: (i) limited quantities of standard office and janitorial supplies containing chemicals categorized as Environmentally Regulated Material; (ii) Environmentally Regulated Material set forth in Exhibit "G" which are necessary for Tenant to undertake the Permitted Uses; and (iii) Environmentally Regulated Material handled in conformity with all state and federal environmental regulations. Tenant shall handle all such Environmentally Regulated Material in strict compliance with Environmental Laws in effect during the term of this Agreement or any holdover. Tenant shall provide City with a report including an updated Exhibit "G" which reflects all additional Environmentally Regulated Material necessary for Tenant to undertake the Permitted Uses only if there are changes to Exhibit "G".

#### **104.6 Environmental Compliance.**

104.6.1 Generally; Notice. In its use and occupancy of the Premises, Tenant shall comply (and shall immediately halt and remedy any incident of non-compliance) with: (a) Environmental Laws; (b) all applicable environmental policies, rules and directives of the Harbor Department as set forth on Exhibit "H"

hereto; and (c) following certification of the environmental document required by the California Environmental Quality Act for the development at the Premises intended to implement the any improvements or legally entitle hereunder an additional term of use and occupancy of the Premises, the environmental mitigation measures (“Mitigation Measures”) and Mitigation Monitoring and Reporting Program (or “MMRP”) and other Environmental Compliance Requirements, if any, set forth collectively in Exhibit “I” hereto. Tenant shall immediately upon receipt provide City with copies of any notices or orders or similar notifications received from any Governmental Agency regarding compliance with any Environmental Laws.

104.6.2 Revision of Mitigation Measures and Environmental Compliance Requirements. Following the Effective Date, upon mutual written agreement of the Board and Tenant, or through other measures incorporated into this Agreement, the Board may revise Exhibit “I”.

**104.7 Environmental Audits.** Tenant shall perform annual written audits of its compliance with the Mitigation Monitoring and Reporting Program and Environmental Compliance requirements described in Exhibit “I”. The results of such audits shall be maintained on Premises for review by City. City shall have the right to conduct, at its sole cost and expense, periodic audits of Tenant’s compliance with the Mitigation Monitoring and Reporting Program and Environmental Compliance Requirements described in Exhibit “I”. Tenant shall provide access to backup materials necessary for City to conduct such audits. Upon completion of such audits, should Tenant so request in writing, City shall provide Tenant with copies of any written reports or resulting from such audits.

**104.8 Waste Disposal.** In discharging its obligations under this Section 104, if Tenant disposes of any soil, material or groundwater contaminated with Environmentally Regulated Material, shall maintain copies of all records, including a copy of each uniform hazardous waste manifest indicating the quantity and type of material being disposed of, the method of transportation of the material to the disposal site and the location of the disposal site. Tenant shall supply copies of such records to the City promptly upon City’s request. The name of the City of Los Angeles, the Port of Los Angeles or the Harbor Department shall not appear on any manifest document as a generator of such material.

**104.9 Laboratory Testing.** In discharging its obligations under this Section 104, all analyses shall be conducted at a laboratory certified for such analyses by the Los Angeles Regional Water Quality Control Board or other similar laboratory of which the Harbor Department shall approve in writing. By signing this Agreement, Tenant hereby irrevocably directs any such laboratory to provide City, within thirty (30) days, upon written request from City, copies of all of its reports, test results, and data which are prepared in accordance with the requirements of this lease and/or regulatory agencies. Should Tenant fail to provide City with the requested information within thirty (30) days, City has the right to obtain such information directly from the laboratory. Tenant hereby irrevocably directs any such laboratory to provide City, upon written request from City, copies of all

of its reports, test results, and data gathered. As used in this Subsection 104.9, "Tenant" includes agents, employees, contractors, subcontractors, and/or invitees of the Tenant.

**104.10 Survival of Obligations.** Except as otherwise provided in this Section 104, this Section 104 and the obligations herein shall survive the expiration or earlier termination of this Agreement.

## **Section 105. Alteration of Premises by Tenant.**

**105.1 Alterations Require City Authorization.** Tenant acknowledges City's interest in controlling the manner in which physical changes are made to the Premises after the Effective Date and covenants that, other than maintenance and repair undertaken in compliance with Section 108, it shall make no improvements, alterations, additions, modifications, or changes to the Premises including but not limited to the construction of works or improvements or the changing of the grade of the Premises or which effect the structural integrity of the Improvements on the Premises or which substantially change the value or utility of the Improvements ("Alteration") without obtaining the Executive Director's prior written authorization to undertake such Alteration and no Alterations shall be made for the purpose of altering the Permitted Uses unless approved in advance in writing by the Harbor Department which approval shall be in the Harbor Department's sole and absolute discretion.

**105.2 Authorization Procedure.** When so required, Tenant shall obtain written authorization to undertake an Alteration according to the following procedure:

105.2.1 Application for Port Permits. If Tenant desires to undertake an Alteration, Tenant shall submit to the Harbor Department a complete Application for Port Permits ("APP") that attaches a complete set of drawings, plans, and specifications reflecting the proposed Alteration. Such drawings, plans and specifications shall be prepared and stamped by a licensed engineer registered in the State of California. Tenant bears sole responsibility for the completeness of such submittal.

105.2.2 Harbor Engineer's General Permit. The Harbor Engineer shall have the right to require changes to the drawings, plans and specifications Tenant submits in connection with such APP. If the Harbor Engineer orders such a change and Tenant believes that such a change will have any detrimental effect on the structural integrity of the works, project or improvements, or increase any hazard to life or property, Tenant shall immediately notify the Harbor Engineer. If Tenant fails to provide such notification, the drawings, plans and specifications shall be treated for all purposes as if they had been originally prepared by Tenant, as changed. The Harbor Engineer's approval of Tenant's submittal, if any, shall be reflected by issuance of a Harbor Engineer's General Permit.

105.2.3 Non-Harbor Department Permits. Tenant acknowledges that, in addition to obtaining a Harbor Engineer's General Permit, Tenant additionally may be required to obtain permits and authorizations with respect to the proposed

Alteration from City, federal and state bodies (“Non-Harbor Department Permits”), the issuance of which the Harbor Department does not control. In any event, obtaining the Harbor Engineer’s General Permit and any Non-Harbor Department Permits necessary to undertake the proposed Alteration is and shall be the sole responsibility of Tenant. Every Alteration made by Tenant shall conform with Applicable Laws, as well as with the plans and specifications as approved by the Harbor Engineer.

105.2.4 Tenant’s Obligation to Obtain All Permits. Tenant acknowledges that issuance of the Harbor Engineer’s General Permit shall be conditioned upon Tenant’s demonstration that it has obtained all Non-Harbor Department Permits with respect to the proposed Alteration as may be required by entities other than the Harbor Department.

105.2.5 Tenant’s Obligation to Obtain All Environmental Clearances. Tenant acknowledges that the Alterations may require compliance with all Environmental Laws, including, but not limited to, compliance with CEQA. Tenant shall reimburse City for all expenses it incurs in conjunction with the review and preparation of any needed environmental clearance for the Alterations.

105.2.6 Payment of City Fees and Reimbursement of City Costs. Tenant acknowledges that City shall incur costs in processing Tenant’s APP and agrees that such costs are the sole responsibility of Tenant. Tenant shall submit any fees established by the Harbor Department for processing APPs. Additionally, within fifteen (15) days of receiving an invoice by City, Tenant shall reimburse City for any extraordinary costs not covered by such fees, including without limitation, costs incurred in preparing and processing any environmental clearance for the Alteration.

105.2.7 City Inspection; Corrective Action. Tenant acknowledges that City may perform inspections of the Alteration to ensure that such Alteration conforms with the permits issued. Tenant shall undertake any corrective measures reasonably requested by City as a result of such inspections.

**105.3 Notice of Commencement and Completion of Work.** Tenant shall give advance written notice to the Harbor Engineer of the date it will commence any construction. Within thirty (30) days of completion of construction, Tenant shall provide written notice to the Harbor Engineer of the date of such completion, copies of “as-built” plans for such construction, copies of all permits issued in connection with such construction and copies of all documentation issued in connection with such completed construction, including but not limited to inspection reports and certificates of occupancy.

**105.4 Cost of Permits.** Tenant, at its sole cost and expense, shall obtain all permits necessary for such construction.



**105.5 Cost of Construction.** All construction by Tenant pursuant to this Section 105 shall be at Tenant's sole cost and expense. Tenant shall keep the Premises and improvements constructed free and clear of liens for labor and materials and shall hold City harmless from any responsibility in respect thereto.

**105.6 Construction Contractors.** Tenant shall require by contract that its construction contractors and subcontractors comply with all Applicable Laws.

**105.7 Tenant's Cost for Governmental Agency Requirements.** Any modification, improvement, or addition to the Premises and any equipment installation required by the City Fire Department, City Department of Building and Safety, Air Quality Management District, California or Regional Water Quality Control Board, United States Coast Guard, Environmental Protection Agency, Department of Homeland Security or any other local, regional, state or federal agency in connection with Tenant's undertaking of the Permitted Uses shall be constructed or installed at Tenant's sole cost and expense.

## **Section 106. [Intentionally Omitted.]**

## **Section 107. Utilities.**

**107.1 Generally.** Tenant shall maintain on the Premises as-built drawings that identify the precise location of any pipelines, utilities or similar improvements of any type, that Tenant places on the Premises, or which were placed on the Premises by others and accepted by Tenant for use of the Premises, whether placed above or below ground, (which for the purposes of this Section 107, are collectively referred to as "utilities"). Upon twenty-four (24) hours' written notice by the Harbor Department, Tenant shall undertake at its sole cost and expense whatever measures are reasonably necessary, including subsurface exploration for any utilities or any other substructure placed on the Premises by Tenant, or placed by others and accepted by Tenant for use of the Premises, to precisely locate the position of such items if the Harbor Department considers the as-built drawings as insufficient to locate such items. Tenant agrees any work necessary to locate such items or any damage which may result from the location being incorrectly described, whether incurred by Tenant or the Harbor Department, shall be borne exclusively by Tenant. Exploration and preparation of all documentation recording the location of lines or structures shall be completed within the time specified in said notice, which time shall be commercially reasonable. The subsurface exploration shall verify the vertical as well as the horizontal location of all utilities and substructures. Documentation reflecting the results of said exploration shall be filed with the Chief Harbor Engineer. Upon written request by Tenant to the Executive Director, the Harbor Department shall deliver to Tenant copies of all as-built plans in the Harbor Department's possession for the Premises depicting any and all improvements, including but not limited to precise locations of any pipelines, utilities, and or similar improvements of any type.

**107.2 Harbor Department Right to Locate.** If Tenant neglects, fails or refuses within the time specified in said notice to begin or fails to prosecute diligently to complete the work of locating any utilities or any other substructure placed on the Premise by Tenant, or placed by others and accepted by Tenant for use of the Premises, the Harbor

Department shall provide written notice to Tenant which shall specify such neglect, failure or refusal. Upon delivery of the notice specifying Tenant's, neglect, failure or refusal, Tenant shall have such time as is reasonably necessary to cure such neglect, failure or refusal so long as Tenant commences the cure within a thirty (30) day period and thereafter diligently prosecutes such cure to completion. If Tenant fails to cure in a timely and diligent manner, City shall have the right to enter the Premises to identify the precise location of any utilities or improvements of any type that Tenant has placed on the Premises, or that were placed by others and accepted by Tenant for use of the Premises, whether placed above or below ground. Tenant shall be solely responsible for City Costs associated with the right set forth in this Subsection 107.2 and shall pay City, as Additional Rent, within thirty (30) days of receiving an invoice for payment from City.

**107.3 Relocation of Utilities; Harbor Department Right to Relocate.** At any time during the term of this Agreement, the Executive Director shall have the right to make any change in the route or location of any utility constructed or maintained on the Premises by Tenant pursuant to the authority of this Agreement as may be required or made necessary for the progress of harbor development or the performance of any work or improvement within the jurisdiction of the Board. If the Executive Director determines that any such change or relocation is necessary, the Executive Director shall give at least ninety (90) days written notice to Tenant and the work of removal and relocation shall be completed within such time after said written notice as shall be fixed in said notice. The cost of any such removal and relocation shall be borne by Tenant. If Tenant neglects, fails or refuses within the time specified in said notice to begin or fails to prosecute diligently to completion the work of relocating the pipelines, the Harbor Department shall provide written notice to Tenant which shall specify such neglect, failure or refusal. Upon delivery of the notice specifying Tenant's neglect, failure or refusal, Tenant shall have such time as is reasonably necessary to cure such neglect, failure or refusal so long as Tenant commences the cure within a thirty (30) day period and thereafter diligently prosecutes such cure to completion. If Tenant fails to cure in a timely and diligent manner, City shall have the right to enter the Premises and relocate the utility. Tenant shall be solely responsible for City Costs associated with the right set forth in this Subsection 107.3 and shall pay City, as Additional Rent, within thirty (30) days of receiving an invoice for payment from City.

**107.4 Rules Governing Utilities.** After installation, and in any event for the duration of this Agreement, Tenant shall comply with the Applicable Laws regarding utilities testing and inspection requirements.

## **Section 108. Maintenance and Repair.**

**108.1 Generally.** Except for those items identified on Exhibit "J" hereto (which Exhibit "J" may be amended by the Executive Director, in the Executive Director's sole reasonable discretion), and as set forth in Subsection 108.6 (City Maintenance Obligations) at all times, Tenant, at its sole cost and expense, shall keep and maintain the Premises, and all buildings, works and improvements of any kind thereon, including without limitation the paving, the improvements existing on the Premises as of the Effective Date, and City's Improvements as depicted on Exhibit "B", in good and

substantial repair and condition, whether or not the need for such repairs occurs as a result of Tenant's use, any prior use, the elements, or the age of such portion of the Premises or improvements thereon, and shall be responsible for and perform all necessary inspection, maintenance and repair thereof, including preventive maintenance, using materials and workmanship of similar quality to the original improvements, or updated to current standards for such improvements. Tenant shall obtain any permits, including but not limited to those issued by City, necessary for such maintenance and repair. City shall reimburse Tenant for any repairs made necessary by use of the Premises by a temporary user pursuant to Subsection 102.6 (Temporary Assignments).

**108.2 Failure to Maintain.** If Tenant fails to make any repairs or to perform required maintenance within thirty (30) days after receipt of notice from City to do so, City may, but shall not be obligated to, make such repairs or perform such maintenance. Tenant shall reimburse City for City's Costs (as defined in Subsection 108.3, below, which costs shall be deemed Additional Rent) within thirty (30) days after receipt of City's invoice for work performed. In the event Tenant shall commence such repairs and diligently prosecute the same to completion or shall begin to perform the required maintenance within the thirty (30) day period, City shall refrain from commencing or prosecuting further any repairs or performing any required maintenance until the work has been completed by Tenant. Tenant shall thereafter pay on demand City's costs incurred pursuant to this Subsection 108.2 prior to Tenant's commencement of repair or maintenance. The making of any repairs or the performance of maintenance by City, which is the responsibility of Tenant, shall in no event be construed as a waiver of the duty or obligation of Tenant to make future repairs or perform required maintenance as herein provided.

**108.3 City's Costs.** "City's costs" for purposes of this Section 108 shall include, in City's sole reasonable discretion, the cost of maintenance or repair or replacement of property neglected, damaged or destroyed, including direct and allocated costs for labor, materials, services, equipment usage, and other indirect or overhead expenses arising from or related to maintenance, repair or replacement work performed by or on behalf of City.

**108.4 Litter and Debris.** Tenant, at its sole cost and expense, shall provide sufficient dumpsters or other like containers for trash collection and disposal and keep the Premises free and clear of rubbish, debris, litter and graffiti at all times. Tenant shall perform periodic inspections and cleaning of the storm water catch basins (including filters), maintenance holes, and drains, and, to the extent applicable to this Agreement, maintaining the submerged land underlying the water berthing area at the Premises free and clear of debris from the wharf and from vessels, and cargo loading and unloading operations of vessels berthed at said berths in connection with Tenant's undertaking of the Permitted Uses. Tenant, at its sole cost and expense, further shall keep and maintain the Premises in a safe, clean and sanitary condition in accordance with all Applicable Laws.

**108.5 Fire Protection Systems.** All fire protection sprinkler systems, standpipe systems, fire hoses, fire alarm systems, portable fire extinguishers and other fire-

protective or extinguishing systems, with the exception of hydrant systems, which have been or may be installed on the Premises shall be maintained and repaired by Tenant, at its cost, in an operative condition at all times.

**108.6 City Maintenance Obligations.** In addition to the improvements listed in Exhibit "J", City shall be responsible for the maintenance and repair of all roofs and fire safety systems on City Improvements. To the extent that the Harbor Department maintains any utilities utilized by Tenant, the Harbor Department shall assess a maintenance fee to cover the cost of such maintain which assessment shall be Additional Rent.

## **Section 109. Default and Termination.**

### **109.1 Tenant's Default.**

109.1.1 Event of Default. The occurrence of any of the following shall constitute a material breach and default by Tenant under this Agreement:

(a) Tenant's failure to pay when due any Rent required to be paid under this Agreement if the failure continues for three (3) business days after written notice of the failure from City to Tenant;

(b) Tenant's failure to comply with any term, provision or covenant of this Agreement other than paying Rent, and does not commence to cure such failure within thirty (30) days after delivery of written notice of the failure from City to Tenant or does not cure the failure within ninety (90) days after delivery of such notice. An extension may be granted by the Executive Director to cure such failure, as Tenant commences to cure within thirty (30) days of delivery of the notice and diligently proceeds to cure such default to completion.

(c) Tenant's abandonment of the Premises, including but not limited to (i) Tenant's absence from or failure to use the Premises or any substantial portion thereof for three (3) consecutive days (excluding Saturdays, Sundays, and California legal holidays) while in default of any provision of this Agreement; or (ii) if not in default, Tenant's absence from or failure to use the Premises or any substantial portion thereof for a period of thirty (30) consecutive days unless Tenant, prior to the expiration of any such period of thirty (30) consecutive days, notified the Executive Director in writing that such nonuse is temporary and obtains the written consent of the Executive Director to such nonuse;

(d) To the extent permitted by law:

(1) A general assignment by Tenant or any guarantor of the Agreement for the benefit of the creditors without written consent of City;

(2) The filing by or against Tenant, or any guarantor, of any proceeding under an insolvency or bankruptcy law, unless (in the case of an involuntary proceeding) the proceeding is dismissed within sixty (60) days;

(3) The appointment of a trustee or receiver to take possession of all or substantially all the assets of Tenant or any guarantor, unless possession is unconditionally restored to Tenant or that guarantor within thirty (30) days and the trusteeship or receivership is dissolved; and/or

(4) Any execution or other judicially authorized seizure of all or substantially all the assets of Tenant located on the Premises, or of Tenant's interest in this Agreement, unless that seizure is discharged within thirty (30) days;

(e) The undertaking of a use other than a Permitted Use on the Premises if Tenant fails to discontinue such use within three (3) calendar days after delivery of written notice from City to Tenant demanding that Tenant cease and desist such unpermitted use.

109.1.2 City's Remedies on Tenant's Default. On the occurrence of a default by Tenant, City shall have the right to pursue any one or more of the following remedies in addition to any other remedies now or later available to City at law or in equity. These remedies are not exclusive but are instead cumulative. Any monetary sums that result from application of this Subsection 109.1.2 shall be deemed Additional Rent.

109.1.2.1 Termination of Agreement. City may terminate this Agreement and recover possession of the Premises. Once City has terminated this Agreement, Tenant shall immediately surrender the Premises to City. On termination of this Agreement, pursuant to Civil Code Section 1951.2 or its successor, City may recover from Tenant all of the following:

(a) The worth at the time of the award of any unpaid Rent that had been earned at the time of the termination, to be computed by allowing interest at the rate set forth in Item 270 of the Tariff but in no case greater than the maximum amount of interest permitted by law;

(b) The worth at the time of the award of the amount by which the unpaid Rent that would have been earned between the time of the termination and the time of the award exceeds the amount of unpaid Rent that Tenant proves could reasonably have been

avoided, to be computed by allowing interest at the rate set forth in Item 270 of the Tariff but in no case greater than the maximum amount of interest permitted by law;

(c) The worth at the time of the award of the amount by which the unpaid Rent for the balance of the term of the Agreement after the time of the award exceeds the amount of unpaid Rent that Tenant proves could reasonably have been avoided, to be computed by discounting that amount at the discount rate of the Federal Reserve Bank of San Francisco at the time of the award plus two percent (2%);

(d) Any other amount necessary to compensate City for all the detriment proximately caused by Tenant's failure to perform obligations under this Agreement, including, without limitation, restoration expenses, expenses of improving the Premises for a new tenant (whether for the same or a different use), brokerage commissions, and any special concessions made to obtain a new tenant;

(e) Any other amounts, in addition to or in lieu of those listed above, that may be permitted by Applicable Law; and

(f) To the extent that Tenant fails to surrender the Premises after Termination, Tenant agrees that the damages to City for such holdover shall be one hundred fifty percent (150%) of the Rent payable for the last month prior to the Termination of this Agreement or one hundred fifty percent (150%) of the fair market rental at the time of the Termination, whichever is greater.

109.1.2.2 Continuation of Agreement in Effect. City shall have the remedy described in Civil Code Section 1951.4, which provides that, when a tenant has the right to sublet or assign (subject only to reasonable limitations), the City may continue the Agreement in effect after the tenant's breach and abandonment and recover Rent as it becomes due. Accordingly, if City does not elect to terminate this Agreement on account of any default by Tenant, City may enforce all of City's rights and remedies under this Agreement, including the right to recover all Rent as it becomes due.

109.1.2.3 Tenant's Subleases. Whether or not City elects to terminate this Agreement on account of any default by Tenant, City may:

(a) Terminate any sublease, license, concession, or other consensual arrangement for possession entered into by Tenant and affecting the Premises; or

(b) Choose to succeed to Tenant's interest in such an arrangement. If City elects to succeed to Tenant's interest in such an arrangement, Tenant shall, as of the date of notice by City of that election, have no further right to, or interest in, the Rent or other consideration receivable under that arrangement.

109.1.3 Form of Payment After Default. If Tenant fails to pay any amount due under this Agreement within ten (10) days after the due date or if Tenant draws a check on an account with insufficient funds, City shall have the right to require that any subsequent amounts paid by Tenant to City under this Agreement (to cure a default or otherwise) be paid in the form of cash, money order, cashier's or certified check drawn on an institution acceptable to City, or other form approved by City despite any prior practice of accepting payments in a different form.

109.1.4 Acceptance of Rent Without Waiving Rights. City may accept Tenant's payments without waiving any rights under this Agreement, including rights under a previously served notice of default. If City accepts payments after serving a notice of default, City may nevertheless commence and pursue an action to enforce rights and remedies under the previously served notice of default, including any rights City may have to recover possession of the property.

109.1.5 Cross Default. A material breach of the terms of any other permit, license, lease or other contract held by Tenant and City shall constitute a material breach of the terms of this Agreement and shall give City the right to terminate this Agreement for cause in accordance with the procedures set forth in this Section 109.

## **109.2 City's Defaults.**

109.2.1 Event of Default. City's failure to perform any of its obligations under this Agreement, if City fails to commence to cure the failure within sixty (60) days after delivery of written notice of the failure from Tenant to City, or if the failure continues for ninety (90) days after delivery of such notice, unless the failure is such that it cannot be cured in ninety (90) days, in which case if City fails to diligently cure within a reasonable amount of time, shall constitute a default.

109.2.2 Tenant's Remedy on City Default. Tenant's sole remedy for a City default shall be to seek specific performance in a court of competent jurisdiction.

**109.3 Replacement of Statutory Notice Requirements.** When this Agreement requires service of a notice, that notice shall replace rather than supplement any equivalent or similar statutory notice, including any notices required by Code of Civil Procedure Section 1161 or any similar or successor statute. When a statute requires service of a notice in a particular manner, service of that notice (or a similar notice required by this Agreement) in the manner required by Section 6 (Notices) shall replace

and satisfy the statutory service-of-notice procedures, including those required by Code of Civil Procedure Section 1162 or any similar or successor statute. Notwithstanding the foregoing, nothing herein contained shall preclude or render inoperative service of notice in the manner provided by law.

### **Section 110. Force Majeure.**

Except as otherwise provided in this Agreement, whenever a day is established in this Agreement on which, or a period of time, including a reasonable period of time, is designated within which, either Party is required to do or complete any act, matter or thing, the time for the doing or completion thereof shall be extended by a period of time equal to the number of days on or during which such Party is prevented from, or is unreasonably interfered with, the doing or completion of such act, matter or thing because of acts of God, the public enemy or public riots; failures due to nonperformance or delay of performance by suppliers or contractors; any order, directive or other interference by municipal, state, federal or other governmental official or agency (other than City's failure or refusal to issue permits for the construction, use or occupancy of City's Improvements or the Premises); any catastrophe resulting from the elements, flood, fire, explosion; or any other cause reasonably beyond the control of a Party, but excluding strikes or other labor disputes, lockouts or work stoppages ("Force Majeure"); provided, however, that this Section 110 shall not apply to (1) the time for payment of Rent or any other monetary obligation, (2) the Completion Deadline, if any (3) the insurance provisions set forth in this Agreement, or (4) to extend the term of the Agreement beyond fifty (50) years. In the event of the happening of any of such contingencies events, the Party delayed by Force Majeure shall immediately give the other Party written notice of such contingency, specifying the cause for delay or failure, and such notice from the Party delayed shall be prima facie evidence that the delay resulting from the causes specified in the notice is excusable. The Party delayed by Force Majeure shall use reasonable diligence to remove the cause of delay, and if and when the event which delayed or prevented the performance of a Party shall cease or be removed, the Party delayed shall notify the other Party immediately, and the delayed Party shall recommence its performance of the terms, covenants and conditions of this Agreement.

### **Section 111. Indemnity and Insurance.**

#### **111.1 Indemnity.**

111.1.1 Generally. Tenant shall at all times relieve, indemnify, protect and save harmless City and any and all of its boards, officers, agents and employees from any and all claims and demands, actions, proceedings, losses, liens, costs and judgments of any kind and nature whatsoever, including cost of litigation (including all actual litigation costs incurred by the City, including but not limited to, costs of experts and consultants), for death of or injury to persons, or damage to property, including property owned by or under the care and custody of City, and for civil fines and penalties that may arise from or be caused directly or indirectly by:



(a) Any dangerous, hazardous, unsafe or defective condition of, in or on the Premises, of any nature whatsoever, which may exist by reason of any act, omission, neglect, or any use or occupation of the Premises by Tenant, its officers, agents, employees, sublessees, licensees or invitees;

(b) Any operation conducted upon or any use or occupation of the Premises by Tenant, its officers, agents, employees, sublessees, licensees or invitees under or pursuant to the provisions of this Agreement or otherwise;

(c) Any act, error, omission, willful misconduct or negligence of Tenant, its officers, agents, employees, sublessees, licensees or invitees, arising from the use, operation or occupancy of the Premises, regardless of whether any act, omission or negligence of City, its officers, agents or employees contributed thereto;

(d) Any failure of Tenant, its officers, agents or employees to comply with any of the terms or conditions of this Agreement or any applicable federal, state, regional, or municipal law, ordinance, rule or regulation; or

(e) The conditions, operations, uses, occupations, acts, omissions or negligence referred to in subsections (a) through (d) above, existing or conducted upon or arising from the use or occupation by Tenant or its invitees on any other premises within the "Harbor District," as defined in City's Charter.

This Subsection 111.1.1 shall not be construed to make Tenant responsible for loss, damage, liability or expense to third-parties to the extent caused solely by the negligence or willful misconduct of City.

111.1.2 Term Contamination Losses. Tenant shall also indemnify, defend and hold City harmless from any and all claims, judgments, damages, penalties, fines, costs, liabilities or losses (including, without limitation, diminution of the value of the Premises, damages for loss or restriction on use of rentable or useable space or of any amenity of the Premises, damages arising from any adverse impact on marketing of space, and sums paid in settlement of claims, attorneys' fees, consultant fees and expert fees) which arise during or after the Agreement term as a result of Term Contamination for which Tenant is otherwise responsible for under the terms of this Agreement. This indemnification of City by Tenant includes, without limitation, costs incurred in connection with any investigation of site conditions or any clean up, remedial, removal or restoration work required by any federal, state or local governmental agency because of Term Contamination present in the soil or groundwater on or under the Premises.

111.1.3 Survival of Obligations. The indemnity obligations in this Section 111 shall survive the expiration or earlier termination of this Agreement and shall

apply regardless of the active or passive negligence of City and regardless of whether liability without fault or strict liability is imposed or sought to be imposed on City.

**111.2 Insurance.** In addition to, and not as a substitute for, or limitation of, any of the indemnity obligations imposed by this Agreement, Tenant shall procure and maintain at its expense and keep in force at all times during the term of this Agreement the types and amounts of insurance specified on Insurance, Exhibit "K", attached hereto and incorporated by reference herein. The specified insurance shall also, either by provisions in the policies, by City's endorsement form or by other endorsement attached to such policies, include and insure City, its Harbor Department, its Board and all of City's officers, employees, and agents, their successors and assigns, as additional insureds, against the areas of risk described in Exhibit "K" and below, with respect to Tenant's acts or omissions in its operation, use and occupancy of the Premises or other related functions performed by or on behalf of Tenant in, on or about the Harbor District. The types of insurance which are required must meet the following conditions during the term of this Agreement and any hold-over periods:

111.2.1 Commercial General Liability. Commercial general liability insurance, including contractual liability, auto liability and property damage insurance written by an insurance company authorized to do business in the State of California, or approved by the California Department of Insurance as a surplus lines insurer eligible to do business in California, rated VII, A- or better in Best's Insurance Guide (or an alternate guide acceptable to City if a Best's Rating is not available) with Tenant's normal limits of liability, but not less than set forth in Exhibit "K" for each accident or occurrence. The coverage shall provide first dollar coverage except that the Executive Director may permit a self-insured retention or self-insurance in those cases where, in the Executive Director's judgment, such retention or self-insurance is justified by the net worth of Tenant. The retention or self-insurance provided shall provide that any other insurance maintained by the Department shall be excess of Tenant's insurance and shall not contribute to it. In all cases, regardless of any deductible or retention, said insurance shall contain a defense of suits provision and a severability of interest clause. Where Tenant operates watercraft, liability coverage for such craft must be provided as follows:

(1) Hull and machinery coverage for the value of each vessel which will call at the Premises during the term of this Agreement, if any; and

(2) Protection and indemnity coverage with combined single limits as set forth in Exhibit "K" per occurrence for bodily injury, illness, death, loss of or damage to the property of another, Jones Act risks or equivalent thereto internationally, and pollution liability to which it is agreed that the additional insured and cancellation notice provisions as required and described below must be included. Pollution liability shall include coverage for bodily injury, including death and mental anguish, property damage,

defense costs and cleanup costs. Such coverage shall contain a defense of suits provision and a severability of interest clause.

The submitted policy shall, in addition, provide the following coverage either in the original policy or by endorsement substantially as follows:

"Notwithstanding any inconsistent statement in the policy to which this endorsement is attached, or any endorsement or certificate now or hereafter attached hereto, it is agreed that City, Board, their officers, agents and employees, are additional insureds hereunder, and that coverage is provided for all operations, uses, occupations, acts and activities of the insured under Permit No. \_\_\_\_, and under any amendments, modifications, extensions or renewals of said Permit regardless of whether such operations, uses, occupations, acts and activities occur on the Premises or elsewhere within the Harbor District.

"The policy to which this endorsement is attached shall provide a ten (10) days' prior written notice of cancellation for nonpayment of premium, and a thirty (30) days' prior written notice of cancellation for any other reasons to the Harbor Department's Risk Manager;

"The coverage provided by the policy to which this endorsement is attached is primary coverage and any other insurance carried by City is excess coverage;

"In the event of one of the named insureds incurring liability to any other of the named insureds, this policy shall provide protection for each named insured against whom claim is or may be made, including claims by other named insureds, in the same manner as if separate policies had been issued to each named insured. Nothing contained herein shall operate to increase the company's limit of liability; and

"Notice of occurrences or claims under the policy shall be made to the Risk Manager of City's Harbor Department with copies to the City Attorney's Office."

111.2.2 Fire Legal Liability. In addition to and concurrently with the aforesaid insurance coverage, Tenant shall also secure and maintain, either by an endorsement thereto or by a separate policy, fire legal liability insurance in the amounts set forth in Exhibit "K", covering legal liability of Tenant for damage or destruction to the works, buildings and improvements owned by City provided that said minimum limits of liability shall be subject to adjustments by the Executive Director to conform with the deductible amount of the fire insurance policy maintained by the Board, with waiver of subrogation in favor of Tenant so long as permitted by the Board's fire insurance policy, upon thirty (30) days' prior written notice thereof to Tenant at any time during the term of this Agreement.

111.2.3 All Risk Insurance. Fire and extended coverage insurance covering a percentage of the replacement value, as set forth in Exhibit "K", of the works, buildings and improvements erected or owned by Tenant on the Premises, with such provision in the policies issued to cover the same, or in riders attached thereto, as will provide for all losses the amount stated in Exhibit "K" to be payable to Board to be held in trust for reconstruction. In the event of loss or damage by fire to any of such buildings or improvements, Tenant shall undertake replacement or reconditioning of such items within ninety (90) days following any such loss. In the event Tenant shall undertake such replacement or reconditioning within said period of ninety (90) days, such proceeds shall be released by Board to Tenant as payments are required for said purpose. Upon the completion of such replacement or reconditioning to the satisfaction of the Executive Director, any balance thereof remaining shall be paid to said Tenant forthwith. In the event Tenant fails to undertake such replacement or reconditioning within said period of ninety (90) days, such proceeds shall be retained by City.

111.2.4 Environmental Impairment Liability Insurance. Should Tenant's operations involve the storage or use of any type of hazardous materials or pollutants, the Tenant shall be required to maintain environmental impairment liability insurance which shall include coverage for bodily injury, property damage, including third-party claims for on-site and off-site bodily injury and property damage, clean-up and defense, with a limit of at least the amount set forth in Exhibit "K" per occurrence, which is to remain in effect at least five (5) years after the termination of the Agreement.

111.2.5 Workers' Compensation. Tenant shall secure the payment of compensation to employees injured while performing work or labor necessary for and incidental to performance under this Agreement in accordance with Section 3700 of the Labor Code of the State of California. Tenant shall file with the City one of the following: 1) a certificate of consent to self-insure issued by the Director of Industrial Relations, State of California; 2) a certificate of Workers' Compensation insurance issued by an admitted carrier; or 3) an exact copy or duplicate thereof of the policy certified by the Director or the insurer. Such documents shall be filed prior to delivery of Premises. Where Tenant has employees who are covered by the United States Longshore and Harbor Workers' Compensation Act, Tenant shall furnish proof of such coverage to the City. It is suggested that Tenant consult an insurance professional of its choosing to determine whether its proposed operation methods will render its employees subject to coverage under such Act. All Workers' Compensation insurance submitted to City shall include an endorsement providing that any carrier paying benefits agrees to waive any right of subrogation it may have against City.

111.2.6 Insurance Features. Such insurance procured by Tenant shall include the following features:

111.2.6.1 Notice of Cancellation. Each insurance policy described above shall provide that it shall not be cancelled or reduced in coverage until after the Risk Manager has been given a ten (10) days' written notice of cancellation for nonpayment of premium and a thirty (30) days' written notice of cancellation for any other reason.

111.2.6.2 Acceptable Evidence and Approval of Insurance. Electronic submission is the required method of submitting Tenant's insurance documents. KwikComply is the City's online insurance compliance system and is designed to make the experience of submitting and retrieving insurance information quick and easy. The system is designed to be used primarily by insurance brokers and agents as they submit client insurance certificates directly to the City. It uses the standard insurance industry form known as the ACORD 25 Certificate of Liability Insurance in electronic format. The advantages of KwikComply include standardized, universally accepted forms, paperless approval transactions (24 hours, 7 days per week), and security checks and balances. Tenant's insurance broker or agent shall obtain access to KwikComply at <https://kwikcomply.org/> and follow the instructions to register and submit the appropriate proof of insurance on Tenant's behalf.

111.2.6.3 Renewal of Policies. Prior to the expiration of each policy, Tenant shall show through submitting to KwikComply that the policy has been renewed or extended or, if new insurance has been obtained, submit the appropriate proof of insurance to KwikComply. If Tenant neglects or fails to secure or maintain the required insurance, or if Tenant fails to submit proof of insurance as required above, the City's Harbor Department may, at its option and at the expense of Tenant, may obtain such insurance for Tenant.

111.2.6.4 Certified Copies of Policies. Upon request by Executive Director, Tenant must furnish a copy of the binder of insurance and/or full certified copies of any or all policies of insurance required herein. Tenant's obligation to provide such copies shall survive the Expiration Date regardless of whether Executive Director's request is made prior to or after the Expiration Date.

111.2.6.5 Modification of Coverage. The Executive Director, or designee, at the Executive Director's discretion, may require that Tenant increase or decrease amounts and types of insurance coverage required hereunder at any time during the term hereof by giving ninety (90) days' prior written notice to Tenant. The modification of coverage shall occur no less than every five (5) years of the term to insure that the coverage amounts are consistent with industry standards at the time of the modification for the Permitted Uses of the Premises.

111.2.6.6 Accident Reports. Tenant shall report in writing to Executive Director within fifteen (15) days after it, its officers or managing agents have knowledge of any accident or occurrence involving death of or injury to any person or persons, or damage in excess of Fifty Thousand Dollars (\$50,000) to property, occurring upon the Premises, or elsewhere within the Harbor District, if Tenant's officers, agents or employees are involved in such an accident or occurrence while undertaking the Permitted Uses. Such report shall contain to the extent available: (1) the name and address of the persons involved; (2) a general statement as to the nature and extent of injury or damage; (3) the date and hour of occurrence; (4) the names and addresses of known witnesses; and (5) such other information as may be known to Tenant, its officers or managing agents.

111.2.7 Right to Self-Insure. Upon written approval by the Executive Director, Tenant may self-insure if the following conditions are met:

(a) Tenant has a formal self-insurance program in place prior to execution of this Agreement. If a corporation, Tenant must have a formal resolution of its board of directors authorizing self-insurance;

(b) Tenant agrees to protect the City, its boards, officers, agents and employees at the same level as would be provided by full insurance with respect to types of coverage and minimum limits of liability required by this Agreement;

(c) Tenant agrees to defend the City, its boards, officers, agents and employees in any lawsuit that would otherwise be defended by an insurance carrier;

(d) Tenant agrees that any insurance carried by Department is excess of Tenant's self-insurance and will not contribute to it;

(e) Tenant provides the name and address of its claims administrator;

(f) Tenant submits its most recently filed 10-Q and its 10-K or audited annual financial statements for the three most recent fiscal years prior to the Executive Director's consideration of approval of self-insurance and annually thereafter;

(g) Tenant agrees to inform Department in writing immediately of any change in its status or policy which would materially affect the protection afforded Department by this self-insurance; and

(h) Tenant has complied with all laws pertaining to self-insurance.

**111.3 Increased Insurance Risks.** Following the Effective Date, should an event occurring in or about the Premises cause either cancellation or increased rates with respect to any insurance that City may have on the Premises or on adjacent premises, or cause either cancellation or increased rates with respect to any other insurance coverage for the Premises or adjacent premises, upon receipt of written notice from City that cancellation of insurance or increased insurance rates is threatened or has occurred, Tenant immediately shall take appropriate steps to ensure that City is not adversely affected. In City's sole reasonable discretion, such steps may include Tenant: correcting the condition; providing any necessary insurance; paying the increased cost of City's insurance; and/or indemnifying City against any uninsured or underinsured loss on a claim.

## **Section 112. Damage and Destruction to Improvements.**

**112.1 Notice; No Rent Abatement.** Tenant shall promptly give City Notice of any material damage or destruction of any or all of the improvements on the Premises ("Casualty") generally describing the nature and extent thereof. There shall be no abatement or reduction of Rent on account of any Minor Casualty and all obligations of Tenant under this Agreement shall remain unchanged and in full force and effect. In the case of a Major Casualty, provided that the Major Casualty was not caused by the act or omission of Tenant or any of its employees, agents, licensees, subtenants, customers, clients or invitees, until the repair and restoration of the Premises is completed, Tenant shall be required to pay rent only for that part of the Premises that Tenant is able to use while repairs are being made, based on the ratio that the amount of usable rentable area bears to the total rental area in the Premises.

**112.2 Minor Casualty.** In the event of any Minor Casualty at any time during the Term, and regardless of whether such Minor Casualty is insured or uninsured, Tenant shall be obligated to repair, rebuild or restore the damaged improvements.

**112.3 Casualty Covered by Insurance.** If, during the Term of this Agreement, any buildings, structures, or improvements on the Premises are partially or totally destroyed from a risk covered by the insurance required under this Agreement, thereby rendering the Premises partially or totally inaccessible or unusable, Tenant must restore the Premises to substantially the same condition as they were immediately before destruction.

**112.4 Casualty Not Covered by Insurance.** If, during the Term of this Agreement, improvements on the Premises are partially or totally destroyed from a risk not covered by the fire and extended coverage insurance required under this Agreement thereby rendering said Premises partially or totally inaccessible or unusable, such destruction shall not automatically terminate this Agreement. If, however, the cost of restoration exceeds ten percent (10%) of the full replacement value of improvements, as said value existed immediately before said destruction, Tenant may, at Tenant's option, terminate this Agreement by giving written notice to City within sixty (60) days from the date of destruction. If Tenant elects to terminate as above provided, Tenant shall be

obligated, unless otherwise directed by City, to demolish all damaged improvements and remove all debris from the Premises, and otherwise comply with the restoration and surrender obligations contained in Section 117 (Restoration and Surrender of Premises), at Tenant's sole cost. If Tenant fails to exercise its right to terminate this Agreement, this Agreement shall continue in full force and effect for the remainder of the term specified herein and Tenant shall restore the Premises to substantially the same condition as they were in immediately before the damage or destruction.

**112.5 Inapplicability of Civil Code Sections.** The provisions of California Civil Code Sections 1932(2) and 1933(4), and any successor statutes, are inapplicable with respect to any destruction of any part of the Premises; such sections provide that a lease terminates on the destruction of the Premises unless otherwise agreed between the Parties to the contrary.

**112.6 Damage to Wharf.** Notwithstanding the foregoing, whether or not there is insurance to cover such Casualty, Tenant shall be responsible, at its sole cost and expense, for all costs, direct or indirect, associated with repairing any damage to the wharf structure on the Premises, including, but not limited to, damage resulting from a collision between a vessel and the wharf while docking or undocking, unless such damage is due to the sole active negligence of City or of a third-party on the Premises pursuant to Subsection 102.6 (Temporary Assignment), or by a secondary assignee to which the Premises are assigned. The Harbor Department shall have the option of either making the repairs or requiring Tenant to make the repairs. If the Harbor Department makes the repairs, Tenant agrees to reimburse the Harbor Department for the City's costs incurred in making the repairs. All damage shall be presumed to be the responsibility of Tenant and Tenant agrees to be responsible for such damage, unless Tenant can demonstrate to the satisfaction of the Executive Director that someone other than Tenant, its officers, agents, employees, customers, contractors, subtenants, licensees or other invitees caused the damage. The sufficiency of proof presented by Tenant to the Harbor Department shall be determined by the Executive Director in the Executive Director's sole judgment.

## **Section 113. Assignments, Transfers and Subleases.**

### **113.1 Assignment, Transfer and Subletting; City's Consent Required.**

113.1.1 Generally. Tenant shall not, in any manner, transfer or assign this Agreement, or any portion thereof or any interest therein, ("Assignment") voluntarily or involuntarily without the prior written consent of the Board, nor sublet or sublease the whole or any part of the Premises, nor license or permit the use of the same, in whole or in part, without the prior written consent of the Executive Director (collectively referred to as a "Transfer").

113.1.2 Consent Required; Payment of City's Costs. No Transfer of this Agreement, or any interest therein or any right or privilege thereunder, regardless of whether accomplished by a separate agreement, sale of stock or assets, merger or consolidation or reorganization by, or of, Tenant (or any entity that directly or



indirectly controls or owns fifty percent (50%) or more of Tenant), or accomplished in any other manner, whether voluntary or by operation of law, including but not limited to assignment, sublease, transfer, gift, hypothecation or grant of total or partial control, or any encumbrance of this Agreement, shall be valid or effective for any purpose unless (i) Tenant receives the prior written consent of City and (ii) Tenant satisfies the requirements in Subsection 113.3 (Procedure to Obtain Consent to Transfer). Consent to one Transfer shall not be deemed to be a consent to any subsequent Transfer. For purposes of this Subsection 113.1.2, the term "by operation of law" includes but is not limited to: (1) the placement of all or substantially all of Tenant's assets in the hands of a receiver or trustee; or (2) a transfer by Tenant for the benefit of creditors; or (3) transfers resulting from the death or incapacity of any individual who is a Tenant or of a general partner of a Tenant (except as provided in Subsection 113.2.2 (Partnerships)).

Tenant acknowledges and agrees that it shall be required to pay the City for all City Costs incurred to review all documents submitted in response to a request to Transfer.

**113.1.3 Transfer of Assets.** "Transfer" also shall include the involvement of Tenant or its assets in any transaction, or series of transactions (by way of merger, sale, acquisition, financing, transfer, leveraged buyout or otherwise) whether or not there is a formal assignment or hypothecation of this Agreement or Tenant's assets, which involvement results in a reduction of the net worth of Tenant (defined as the net worth of Tenant, excluding guarantors, established by generally accepted accounting principles) by an amount greater than twenty-five percent (25%) of such net worth as it was represented at the time of the execution of this Agreement, or at the time of the most recent Transfer to which City has consented, or as it exists immediately prior to said transaction or transactions constituting such reduction, whichever was or is greater.

## **113.2 Transfers of Ownership.**

**113.2.1 Ownership or Control.** The transfer of more than twenty-five percent (25%) of the economic interest in Tenant or any entity that directly or indirectly controls or owns fifty percent (50%) or more of Tenant in one or more transactions, regardless of whether Tenant is a publicly or privately held entity, shall constitute a Transfer within the meaning of this Section 113.

**113.2.2 Partnerships.** If Tenant is a partnership, any transfer or attempted transfer by any general partner of Tenant of more than twenty-five percent (25%) of its partnership interest in Tenant in one or more transactions shall be a prohibited Transfer within the meaning of this Section 113. Notwithstanding the foregoing, if any transfer of a general partner's interest is due to the death of a general partner and results in the transfer to the immediate members of the general partner's family, who will be immediately and personally involved in the operation

of the partnership, the City shall not unreasonably withhold its consent to such transfer.

113.2.3 Guarantor. If a parent or other entity has guaranteed or otherwise secured any or all of Tenant's obligations under this Agreement and if the ownership, makeup or financial condition of such parent or other entity has, in the sole reasonable discretion of the Executive Director, materially changed at any point during the term of this Agreement, the right is reserved for City to require amendments of such guaranty, the provision of new security, or a combination thereof reasonably required by the Executive Director to maintain the level of security as provided by the original guaranty. Following the Effective Date, Tenant shall have a continuing obligation to notify City in writing of any and all events that do or might constitute a material change within the meaning of this Subsection 113.2.3.

113.2.4 Executive Director Authority to Modify. The Executive Director shall have the authority, but not the obligation, to unilaterally modify the foregoing conditions based on the facts of a particular case.

**113.3 Procedure to Obtain Consent to Transfer.** If Tenant desires to undertake a Transfer, it may seek City's consent thereto. Tenant covenants that before entering into or permitting any Transfer, it shall provide to City written notice at least ninety (90) days before the proposed effective date of the Transfer. Notwithstanding the foregoing, City reserves the right to allow Tenant, on a case-by-case basis, to submit to City for City's consent, Transfers that would have become effective but for Tenant's failure to seek City's prior written consent. In any event, Tenant's written request to City for consent shall hereinafter be referred to as "Transfer Notice."

113.3.1 Transfer Notice. Tenant's Transfer Notice shall contain each of the following:

(a) Specific identification of the entity or entities with whom Tenant proposes to undertake the Transfer ("Transferee");

(b) Specific and detailed description of the Transferee's entity type, ownership (including identification of all parent and subsidiary entities), background/history, nature of the Transferee's business, Transferee's character and reputation and experience in the operations proposed;

(c) Specific and detailed description of the type of Transfer proposed (e.g., assignment, sublease, grant of control, etc.) and the rights proposed to be transferred;

(d) Specific and detailed description of the operations proposed to be undertaken at the Premises by Tenant and Transferee if City consents

to the Transfer which includes a breakdown of the responsibilities and duties of Tenant and Transferee;

(e) All of the terms of the proposed Transfer, including the total consideration payable by Transferee; the specific consideration (if any) payable by Transferee in connection with the Premises and/or uses under this Agreement if the proposed Transfer is part of an acquisition or purchase that involves assets outside this Agreement; the proposed use of the Premises; the effective date of the proposed Transfer; and a copy of all documentation concerning the proposed Transfer;

(f) The proposed form of a guaranty or guaranties providing greater or substantially the same protection to City as any guaranty in effect prior to or contemporaneous with the proposed Transfer;

(g) A business plan for the Transferee including specific estimates of revenue anticipated under each of the following categories: existing contracts, contracts under negotiation and other specified sources;

(h) A general description of any planned Alterations or improvements to the Premises;

(i) A description of the worth of the proposed Transferee including an audited financial statement;

(j) Any further information relevant to the proposed Transfer that City reasonably requests; and

(k) Written authorization in a form acceptable to City allowing City to inspect and review but not to copy, at times and locations reasonably selected by City, any books and records or other information of Tenant or Transferee (or third-parties acting for or on either of their behalves) reasonably determined by City to be necessary for its assessment of Tenant's request for consent.

113.3.2 Limitations on City's Consent. If City consents to a Transfer, the following limits apply:

(a) City does not agree to waive or modify the terms and conditions of this Agreement;

(b) Such consent does not constitute either consent to any further or other Transfer by either Tenant or Transferee or a bar disqualifying submittal of additional Transfer Notices in accordance with the terms of this Agreement following such consent;

(c) If, following such consent, Tenant remains a party to this Agreement, Tenant shall remain liable under this Agreement and any guarantor shall remain liable under its guaranty;

(d) Such consent shall not transfer to the Transferee any option granted to the original Tenant by this Agreement unless such transfer is specifically consented to by City in writing;

(e) Tenant may enter into that Transfer in accordance with this Section 113 if: (a) the Transfer occurs within six (6) months after City's consent; (b) the Transfer, in the sole and absolute discretion of the Executive Director, is on substantially the same terms as specified in the Transfer Notice; and (c) Tenant delivers to City promptly after execution an original executed copy of all documentation pertaining to the Transfer in a form reasonably acceptable to City;

(f) If the Transfer occurs more than six (6) months after City's consent or, in the sole and absolute discretion of the Executive Director, the terms of the Transfer materially change from those in the Transfer Notice, Tenant shall submit a new Transfer Notice under this Section 113, requesting City's consent. A material change for purposes of this Section 113 is one where the terms would have entitled City to refuse to consent to the Transfer initially, or would cause, in the sole and absolute discretion of the Executive Director, the proposed Transfer to be more favorable to Transferee than the terms in the original Transfer Notice;

(g) Tenant and/or Transferee, upon City's written request, shall provide proof, in a form satisfactory in the sole reasonable discretion of the Risk Manager of City's Harbor Department, demonstrating that insurance of the type and limits required by Subsection 111.2 (Insurance) is and shall be in full effect at all times in or around the time period in which the proposed Transfer is anticipated to occur. If requested in writing by City, Transferee shall provide a guaranty agreement in a form acceptable to City obligating Transferee to pay any uninsured or underinsured loss on a claim that, in City's sole and absolute discretion, would have been covered by insurance fully compliant with Subsection 111.2; and

(h) Transferee shall execute and deliver a written acceptance of Transfer in a form acceptable to City in which Transferee expressly assumes all of Tenant's obligations under the Agreement.

**113.4 Factors Germane to City Consent.** In evaluating any Transfer Notice, it shall not be unreasonable for City to withhold or condition its consent to a Transfer based on the following factors, among others:

(a) The net worth, financial condition and creditworthiness of the Transferee and the existence of any guaranty provided by the Transferee's parent or related entity or entities;

(b) The character, experience and reputation of the Transferee (or its operator) in operating the business contemplated by the Transfer;

(c) Whether the Transfer will negatively impact the short-term or long-term development, land use or other plans of City's Harbor Department, and whether consent to such Transfer would violate any of the legal duties of City's Harbor Department, including duties owed to other tenants;

(d) Whether the proposed Transfer is consistent with the terms and conditions of this Agreement in existence when Tenant submitted the Transfer Notice and with the laws, rules and regulations applicable to the Premises and Tenant's use and occupancy thereof;

(e) Whether the information provided by Tenant in connection with Subsection 113.3.1 (Transfer Notice) justifies such consent;

(f) The Transferee's level of commitment and specific plans to invest to improve the Premises following approval of the proposed Transfer, if any;

(g) Whether there are uncured defaults including, without limitation, unpaid Rent and, if there are, whether the proposed transferee agrees to cure, remedy or otherwise correct any default by Tenant existing at the time of the Transfer, in a manner satisfactory to the Board; and

(h) Whether the Transferee, its operator or any Affiliate of the Transferee or its operator is listed on any of the following lists maintained by the Officer of Foreign Assets Control of the U.S. Department of the Treasury, the Bureau of the Industry and Security of the U.S. Department of Commerce or their successors, or on any other list of Persons with which the City may not do business under Applicable Law: the Specially Designated Nationals List, the Denied Persons List, the Unverified List, the Entity List, and the Debarred List.

**113.5 Additional Conditions for Subleases.** If Tenant requests consent to a Transfer consisting of a sublease of all or a portion of the Premises, the following terms and conditions shall also apply:

(a) Notwithstanding Subsection 113.3 (Procedure to Obtain Consent to Transfer), Tenant may request consent for a sublease with less than ninety (90) days' notice.

(b) City reserves the right to recapture any portion of the Premises proposed by Tenant to be subleased (with appropriate amendments to this

Agreement) and to undertake the transaction with the proposed Transferee directly;

(c) Tenant in no event shall be allowed to sublet more than twenty percent (20%) of the Premises to any one sublessee unless this Agreement expressly provides otherwise;

(d) Tenant shall owe to City as Additional Rent, fifty percent (50%) of any amount collected from the sublessee as compensation that exceeds, on a pro rata basis, based on the preceding year's Rent, the compensation due City from Tenant under Section 4 (Rent);

(e) Tenant must provide City with a copy of the Sublease Agreement; and a copy of any notice of default or breach of the sublease; and

(f) No sublessee shall further Transfer or sublet all or any part of the Premises without City's prior written consent.

**113.6 Assignments for Security Purposes.** Tenant's request to assign this Agreement to secure financing of improvements on the Premises will require Board approval and will be considered on a case-by-case basis. Consent to Assignments for security purposes will not be granted unless Tenant and its lenders satisfy the following conditions, among others, which may be reasonably imposed by the Board:

(a) Monies borrowed will be used exclusively to construct improvements or alterations on the Premises.

(b) Monies borrowed must be in a fixed amount. New borrowings or refinancing require further Board approval.

(c) The collateral covered by the security agreement securing Tenant's loan shall cover only Tenant's leasehold interests and interest in improvements on the Premises, not the interests of City in improvements or land, and not any improvements or fixtures which, if removed, would leave the Premises untenable. In this Subsection 113.6, "untenable" means, the removal of improvements or fixtures which, in the City's sole and absolute discretion, would leave the Premises in a condition that prevents City from renting the Premises.

(d) Nothing in the instrument which creates the security interest in the lender shall amend, modify, or otherwise affect the rights of City under this Agreement or any guaranty.

(e) In the event the lender initiates any action to foreclose the interest of Tenant in this Agreement, the lender agrees to deliver to the Board in person or by registered mail a copy of any notice of default sent to Tenant and agrees, ten

(10) calendar days in advance of any foreclosure sale, to give written notice to Board by registered mail. Such notices shall be addressed as follows:

Board of Harbor Commissioners  
c/o Director of Real Estate Division  
P.O. Box 151  
San Pedro, CA 90733-0151

Such notice shall specify which of the below alternative courses of action the lender will take with respect to the Agreement and any guaranty. Any and all of the below stated alternatives are contingent upon the Board's approval in accordance with the conditions in subsection (f) below. Lender may:

(1) Assume as principal all of the obligations and duties arising on or after the foreclosure conveyance date under the Agreement; or

(2) Assume as principal all of the obligations and duties arising on or after the foreclosure conveyance date under the Agreement, and hire an operator, acceptable to the Executive Director, who shall operate the Premises pursuant to the Agreement; or

(3) Assume as principal all of the obligations and duties arising on or after the foreclosure conveyance date, and thereafter reassign the Agreement with the consent of Board. Notwithstanding any provision of this Agreement to the contrary, in the event the lender initiates any action to foreclose the interest of any subsequent assignee of the Agreement, the lender agrees to make the notifications and elections required herein.

The foregoing election by the lender shall be without prejudice to any rights the City may have with respect to Tenant's default of this Agreement; provided, however, that the City shall mail to both Tenant and lender a copy of any written notice of default in the performance of the terms and conditions of the Agreement, by registered mail, return receipt requested, addressed as follows:

(Name and Address of Tenant and lender is to be specified by Tenant. If no lender is specified, notice to Tenant alone is agreed to be sufficient.)

The lender shall have the option to cure such default within the time specified in such notice, provided that if such default is noncurable in nature, City shall have the right to immediately reclaim the Premises and lender shall have no further interest.

(f) Any lender proposal to Transfer its interest in this Agreement or interest therein or right or privilege thereunder requires the Board's consent. The

Board may withhold its consent in its reasonable discretion if the Board determines that the proposed transferee cannot meet all of the following conditions, and any other conditions which may be reasonably imposed by the Board:

(1) This Agreement shall be in full force and effect and no default shall exist or the lender shall agree in writing to cure all such defaults before the transfer.

(2) When requesting the Board's consent to such a Transfer, the lender shall demonstrate that: (a) the financial condition of the proposed transferee is as sound as that of Tenant at the time this Agreement was initially entered into or as at the time of the proposed transfer - whichever provides the better financial security to the City; (b) the proposed transferee has the requisite experience and reputation or has retained an operator with the requisite experience and reputation to operate the Premises; and (c) the proposed Transfer will not unfavorably affect the revenues of the City, employment or the services available to the maritime community; and the proposed transferee, its operator or any Affiliate of the proposed transferee or its operator is listed on any of the following lists maintained by the Officer of Foreign Assets Control of the U.S. Department of the Treasury, the Bureau of the Industry and Security of the U.S. Department of Commerce or their successors, or on any other list of Persons with which the City may not do business under Applicable Law: the Specially Designated Nationals List, the Denied Persons List, the Unverified List, the Entity List, and the Debarred List .

(3) Even if the Board consents to such a proposed Transfer, the Board may first require that the transferee and the Board agree on a new compensation for the Premises transferred. If the Board modifies the compensation, it shall take into account the then existing Board policy for setting compensation and the prevailing market conditions.

(g) The form of all instruments and documents affecting the City's interests in the Premises shall be acceptable to Executive Director and City Attorney of City in their sole and absolute discretion.

(h) The Board shall have the authority, but not the obligation, to modify any of the foregoing conditions based on the facts of a particular case.

**113.7 Assignment Fee.** In the case of Assignments other than Assignments for Security Purposes permitted under Subsection 113.6, above, in recognition of the value added to the Assignment by virtue of the location of the Premises, Tenant shall pay to City a fee ("Assignment Fee") based on the following formula:



(a) Less than Ten (10) Years Left on Term: Tenant shall pay to City an Assignment Fee equal to ten percent (10%) of the economic value attributable to the assignor's leasehold interest derived from, or as a result of the use of the Premises; or

(b) Greater than Ten (10) Years or More Left on Term: Tenant shall pay to City an Assignment Fee equal to fifteen percent (15%) of the economic value attributable to the assignor's leasehold interest derived from, or as a result of the use of the Premises.

**113.8 Charter and Administrative Code.** Tenant acknowledges that this Agreement is subject to the Charter of City and the Administrative Code of City and that approval of a Transfer may require action by several separate entities, including but not limited to the Los Angeles City Council.

**113.9 Tenant Remedies.** If City wrongfully denies or conditions its consent, Tenant may seek only declaratory and/or injunctive relief. Tenant specifically waives any damage claims against City in connection with the withholding or conditioning of consent.

**113.10 Indemnity in Favor of City; Tenant's Rights.** In addition to and not as a substitute for the indemnities Tenant provides to City pursuant to Subsection 111.1 (Indemnity), Tenant shall indemnify, defend and hold harmless City and any and all of its boards, officers, agents, or employees from and against any and all claims and/or causes of action of any third-party (including but not limited to Transferee) arising out of or related to a proposed Transfer except for claims arising from the sole negligence or willful misconduct of City in withholding its consent in which case Tenant's sole remedy shall be entitled only to seek specific performance.

**113.11 Rent or Performance.** City, in its sole discretion, may accept Rent or performance of Tenant's obligations under this Agreement from any person other than Tenant pending approval or disapproval of a Transfer. City's exercise of discretion to accept Rent or performance shall be reflected in writing.

**113.12 Written Certification.** If requested in writing by the Executive Director, Tenant shall, within ten (10) days of its receipt of such written request, certify under penalty of perjury under California Law whether it has or has not undertaken a purported Transfer.

## **Section 114. Records, Reports and City's Right of Inspection.**

**114.1 Operations.** Tenant shall keep full and accurate books, records and accounts relating to its operations on the Premises or at its corporate offices located in the City of Los Angeles. City shall have the right, through its representatives, at all reasonable times and on reasonable notice, to inspect such books, records and accounts in order to verify the accuracy of the sums due, owing and paid to City hereunder. Tenant agrees that such books, records and accounts shall be made available to City at Tenant's

offices in the City of Los Angeles. City shall protect, to the extent permitted by law, the confidentiality of any such books, records and/or accounts so inspected.

**114.2 City Right of Inspection.** City's authorized representatives shall have access to the Premises (a) with 24-hour notice at any and all reasonable times to determine whether or not Tenant is complying with the terms and conditions of this Agreement, and (b) at any and all times, with or without notice, for fire, and police/ or homeland security purposes, to investigate any incidents involving personal injury or property damage, or for any other purpose incidental to the rights and/or duties of City. The right of inspection hereby reserved to City shall impose no obligation on City to make inspections to ascertain the condition of the Premises, and shall impose no liability upon City for failure to make such inspection. Tenant shall provide personnel to accompany City's representatives on periodic inspections of the Premises to determine Tenant's compliance with this Agreement.

**114.3 ACTA.** (Only applicable if Permitted Uses includes a rail related use) Tenant shall provide to City, the Alameda Transportation Corridor Authority ("ACTA"), or their agents, any information reasonably required to compile accurate statistical information related to the Alameda Corridor, and to enable ACTA to generate timely and accurate invoices for Alameda Corridor use fees and container charges payable by users of the Alameda Corridor. Tenant shall use its best efforts to provide such non-confidential and non-privileged information in the format requested.

**114.4 Report of Accidents, Casualties or Crimes.** Tenant shall give the Executive Director notice in case of accidents, crimes, fires or other adverse incidents in the Premise promptly after Tenant is aware of any such event.

## **Section 115. Condemnation.**

**115.1 Generally.** The Parties agree that if during the Term there is any taking of all or any part of the Premises by Condemnation, the rights and obligations of the Parties shall be determined pursuant to this Section 115.

**115.2 Total Taking.** Tenant may elect to treat as a Partial Taking any Taking that would otherwise qualify as a Total Taking. If a Total Taking of the Premises shall occur, and Tenant does not elect by written notice to City, within sixty (60) days thereafter, to treat the same as a Partial Taking, then this Agreement shall terminate as of the effective date of such Total Taking, and the Rent shall be apportioned accordingly. The proceeds of the Total Taking shall be allocated between City and Tenant in accordance with their respective interests.

### **115.3 Partial Taking.**

115.3.1 Effect on Agreement; Award. If a Partial Taking shall occur, then any award or awards shall be applied first to repair, rebuilding or restoration of any remaining part of the Improvements not so taken. Tenant shall perform such repair, rebuilding or restoration in accordance with the applicable requirements of this

Agreement. The balance of any such award or awards remaining after the repair, rebuilding or restoration shall be distributed to City and Tenant as if they were proceeds of a Total Taking affecting only a portion of the Premises taken. If the Partial Taking impacts the usable area of the Premises, the City shall abate or reduce the Rent payable hereunder as a result of such Partial Taking. No other sums payable under the Agreement shall be abated or reduced as a result of any Partial Taking.

115.3.2 Improvements. Should Tenant terminate this Agreement pursuant to this Section 115, title to all improvements, additions, alterations constructed or installed by Tenant upon the Premises and which have not already vested in City shall thereupon vest in City.

115.3.3 Waiver of CCP § 1265.130. Each Party waives the provisions of the California Code of Civil Procedure Section 1265.130 allowing either Party to petition the superior court to terminate this Agreement in the event of a partial taking of the Premises.

**115.4 Temporary Taking.** If a Temporary Taking shall occur with respect to use or occupancy of the Premises for a period greater than 120 days, then Tenant shall, at its option, be entitled to terminate this Agreement effective as of the commencement date of the Temporary Taking. If the Temporary Taking relates to a period of 120 days or less, or if Tenant does not elect within sixty (60) days after the 120th day of the Temporary Taking, to terminate this Agreement, then all proceeds of such Temporary Taking (to the extent attributable to periods within the Term) shall be paid to Tenant, and Tenant's obligations under this Agreement shall not be affected in any way.

**115.5 Severance Damages.** The entire award of compensation paid for any severance damages, whether paid for impairment of access, for land, buildings, and/or improvements shall be the property of City, regardless of whether any buildings or improvements so damaged are owned or were constructed by City or Tenant. However, should City determine that improvements are to be restored, that portion of the severance damages necessary to pay the cost of restoration shall be paid to Tenant accompanied by evidence that the sum requested has been paid for said restoration and is a proper item of such cost and used for such purpose.

**115.6 Other Condemnation.** In the event of any condemnation action not resulting in a Taking but creating a right to compensation, this Agreement shall continue in full force and effect without reduction or abatement of Rent, and the award or payment made in connection with such action shall be allocated between City and Lessee in accordance with their respective interests.

**115.7 Settlement or Compromise.** Neither City, in its Proprietary Capacity under this Agreement, nor Tenant shall settle or compromise any Taking award affecting the interests of the other Party without the consent by such other Party, such consent not to be unreasonably withheld. Each of City and Tenant shall be entitled to appear in all Taking

proceedings affecting its respective interest, to participate in any settlement, arbitration or other proceeding involving such a Taking and to claim its Taking award under this Agreement.

**115.8 Prompt Notice.** If either Party becomes aware of any Taking or threatened or contemplated Taking, then such Party shall promptly give Notice thereof to the other Party.

**115.9 Control of Funds after Partial Taking.** In the event of a Partial Taking where Tenant is required to, or chooses to, repair, rebuild or restore the damaged improvements, the following provisions regarding control of funds shall apply:

115.9.1 Proceeds Less Than \$1,000,000. All proceeds from any Partial Taking less than \$1,000,000 shall be distributed to Tenant and shall be applied by Tenant in accordance with Subsection 115.3 (Partial Taking).

115.9.2 Proceeds Greater Than \$1,000,000.

115.9.2.1 When Fund Control Mechanism in Leasehold Mortgage Governs. If any Leasehold Mortgage permitted by City and entered into by Tenant contains a fund control mechanism providing that all proceeds from any Partial Taking in excess of \$1,000,000 shall be deposited with such Leasehold Mortgagee or a third party depository specified in such Leasehold Mortgage to be disbursed to repair, rebuild or restore the Premises, the mechanics for fund control set forth in such Leasehold Mortgage shall have priority over the corresponding mechanics for fund control set forth in Subsection 115.9.2.2, below.

115.9.2.2 When Fund Control Mechanism in This Agreement Governs. Subject to Subsection 115.9.2.1, above, if proceeds from any Partial Taking total in excess of \$1,000,000, then upon request of City all such proceeds shall be deposited with the City to be disbursed to repair, rebuild or restore the Premises in accordance with the procedures set forth in Section 102 (Damage or Destruction to Improvements), and the balance, if any, of such proceeds shall be allocated between City and Tenant in accordance with their respective interests.

**115.10 Waiver.** The provisions of this Agreement governing Takings are intended to supersede the application of Chapter 10, Article 2 of the California Code of Civil Procedure and all similar Laws, to the extent inconsistent with this Agreement. Nothing in this Section 115 shall be construed to limit City's powers with respect to Takings in its Governmental Capacity.

**Section 116. Marks.**

**116.1 City-Associated Name or Mark.** A “City-Associated” name or mark, as used in this Agreement, shall mean any name or Mark that (i) contains, in whole or partly, name(s) and/or mark(s) (including service marks, trademarks, names, titles, descriptions, slogans, insignias, emblems or logos) of the City of Los Angeles or any department, agency or commission thereof; and (ii) imparts the color of authority of the City of Los Angeles; and/or (3) otherwise imparts association with or endorsement by the City of Los Angeles on any goods or services offered by Lessee under such name or mark.

**116.2 City Approval of Lessee Name or Mark.** City shall have the right of approval of names and marks coined or created by Tenant for use on the Premises to ensure that use of the Premises leased herein under is consistent with that of a public venue leased by a governmental entity. City shall not approve names or marks that impart notions or contain elements that put the City in a false light or that are racist, sexist, derogatory to any legally protected groups/class or unfitting for public facilities.

**116.3 No Assignment or Transfer of City’s Intellectual Property.** Nothing in this Agreement shall be construed to transfer or assign to any party, signatory herein or not, any of the intellectual property rights of the City, including but not limited to trademark rights. Rights not expressly granted by City herein are reserved. Other than as approved by City, Tenant has no right to use any of the City-Associated Marks.

## **Section 117. Restoration and Surrender of Premises.**

### **117.1 Tenant’s Restoration Obligations.**

117.1.1 Generally. By the Expiration Date, or any sooner termination of this Agreement, Tenant shall quit and surrender possession of the Premises and shall be obligated to, as directed by the Executive Director, in the Executive Director’s sole and absolute discretion, either (i) return the Premises to City in good and usable condition, said condition to be consistent with a first class facility of similar age as repaired, maintained or upgraded by Tenant, or any Assignor, or Affiliate of Tenant under this Agreement or any prior permit, or by City, or (ii) demolish all Improvements on the Premises (both City Improvements and Tenant Improvements, if any) and leave the Premises in a clean level and usable condition as set forth below, or (iii) demolish some of the Improvements on the Premises, as designated by City, and leave the area of the Premises where the Improvements were demolished in a clean level and usable condition as set forth below and the remainder of the Premises in good and usable condition as set forth above or (iv) pay the cost of restoration to City if City chooses to perform the work itself or have the work performed on its behalf. Additionally, in lieu of demolition, if the City determines that any of the improvements are historical, or eligible for listing as such, the City, in its sole discretion, may require Tenant to pay to City an amount equal to the estimated cost of demolition to be used by the City for the restoration or adaptive reuse of the historical structure or structures. If City terminates this Agreement due to Tenant’s default, Tenant is still obligated to restore the Premises as provided in this Section 117 or to pay the cost of restoration if City chooses to perform the work.

117.1.2 Water Restoration (applicable only when the Premises include water use rights). Tenant agrees to remove all debris and sunken hulks from channels, slips and water areas within or fronting upon Premises not solely caused by City. Tenant expressly waives the benefits of the "Wreck Act" (Act of March 3, 1899) 33 U.S.C. Section 401 et seq. and the Limitation of Liability Acts (March 3, 1851, c. 43, 9 Stat. 635) (June 26, 1884, c. 121, Sec. 18, 23 Stat. 57) 46 U.S.C. 189 (Feb. 13, 1893, c. 105, 27 Stat. 445) 46 U.S.C. Sec. 190-196 and any amendments to these Acts if it is entitled to claim the benefits of such Acts.

117.1.3 Restoration Requirements. In connection with Subsections 117.1.1 and 117.1.2, above, Tenant, at its sole cost and expense, shall restore the Premises (including the soil, groundwater and sediment) such that, on the Expiration Date, or earlier termination date, the Premises shall be returned to City:

(a) Free of Term Contamination and in at least as good of a condition as the condition depicted in the Baseline Report, if there is a Baseline Report, and free of all contamination if there is no Baseline Report. As between City and Tenant, Tenant shall bear sole responsibility for Term Contamination and any costs related thereto;

(b) Free of any encumbrances including but not limited to deed or land use restrictions as a result of any Term Release and/or any liens (UCC, federal or state tax or otherwise) on the Premises or on fixtures or equipment, or personal property left on the Premises;

(c) Free of all above-ground and below-ground works, structures, improvements and pipelines of any kind, (collectively referred to as "Structures"), placed on the Premises by Tenant, if directed to remove such Structures by City. If the Premises have been improved by a prior tenant or by both City and a prior tenant, then such Structures which were left on the Premises at Tenant's request or for Tenant's benefit shall also be the responsibility of Tenant except as may be otherwise specified by this Agreement; and

(d) In a clean, level, graded and compacted condition with no excavations or holes resulting from Structures removed if City elects to have Tenant remove all Improvements or, if the City elects to retain some of the Improvements, the area of the demolished improvements shall be in a clean, level, graded and compacted condition with no excavations or holes resulting from any structures the City elects to have removed.

**117.2 Restoration Procedure.** Tenant, at its sole cost and expense, shall initiate and complete the procedures set forth below in Subsections 117.2.1 through 117.2.3, and comply with any other conditions reasonably imposed by the Executive Director for the restoration of the Premises. Provided that Tenant discharges its obligations under this

Subsection 117.2 expeditiously and in good faith, City shall reasonably endeavor to ensure that the requirement to discharge its obligations disturbs as little as reasonably possible Tenant's undertaking of the Permitted Uses during the Term of this Agreement. The Executive Director may alter or delete any of the procedures set forth below at the Executive Director's sole and absolute discretion.

117.2.1 Site Vacation Plan. When requested to do so in writing by the Executive Director, Tenant shall submit to City a written plan hereinafter referred to as the "Site Vacation Plan". The Executive Director's written request shall state which, if any of the Improvements or Structures on the Premises the City does or does not want Tenant to remove as part of the restoration of the Premises. The sufficiency of the Site Vacation Plan is subject to City's reasonable approval. The Site Vacation Plan shall comply with the then existing Harbor Department procedures for Restoration.

117.2.2 Permits for Restoration. Tenant shall obtain at its sole cost and expense all permits required for the completion of its restoration obligations.

117.2.3 Adequacy of Restoration. Subject to orders or directives issued by any Governmental Agency with jurisdiction which orders or directives shall take precedence over this Subsection 117.2.3, the adequacy of Tenant's execution of the Restoration Obligations shall be within the sole reasonable discretion of the Executive Director. Tenant shall notify the Executive Director in writing when it believes it has completed all work contemplated by the Site Vacation Plan. The Executive Director shall determine the adequacy of the restoration using the Executive's Director sole reasonable discretion.

**117.3 Restoration Indemnity.** In addition to and not as a substitute for any remedies provided by this Agreement or at law or equity, Tenant shall defend, indemnify and hold harmless City from any and all claims and/or causes of action brought against City and from all damages and costs which arise out of or are related to:

(a) Claims brought by holders of liens on the Premises, Structures, and/or on fixtures and/or equipment or property left on the Premises following the Expiration Date; and

(b) Claims, causes of action, orders or enforcement actions pending against or in connection with the Premises, the Permitted Uses and/or this Agreement.

This restoration indemnity is intended to and shall survive the expiration or earlier termination of this Agreement.

**117.4 No Relocation Assistance.** Nothing contained in this Agreement shall create any right in Tenant or any sublessees of Tenant for relocation assistance or payment from City upon expiration or termination of this Agreement (whether by lapse of

time or otherwise). Tenant acknowledges and agrees that it shall not be entitled to any relocation assistance or payment pursuant to the provisions of any state or federal law, including Title 1, Division 7, Chapter 16 of the California Government Code (Sections 7260 et seq.) with respect to any relocation of its business or activities upon the expiration of the term of this Agreement or upon its earlier termination or upon the termination of any holdover.

**117.5 Failure to Restore.** If City has directed Tenant to demolish or restore some or all of the improvements on the Premises, or otherwise restore the Premises, and Tenant has failed to do so, or failed to do so to the level required by this Agreement, on or before the earlier to occur of the date of the termination of this Agreement or the Expiration Date, City shall have the right, but not the obligation, to remove and/or demolish the same at Tenant's cost. In that event, Tenant agrees to pay to City, upon demand, City's Costs of any such removal, demolition or restoration and further agrees that such City's Costs shall be deemed Additional Rent.

## **Section 118. Miscellaneous.**

**118.1 Titles and Captions.** Unless otherwise indicated, references in this Agreement to sections, subsections, paragraphs, clauses, exhibits and schedules are to the same contained in or attached to this Agreement. Additionally, the Parties have inserted the section titles in this Agreement only as a matter of convenience and for reference, and the section titles in no way define, limit, extend or describe the scope of this Agreement or the intent of the Parties in including any particular provision in this Agreement. Unless otherwise specified, references to Section or Subsection are to sections and subsections of this Agreement.

**118.2 Exhibits and Attachments.** All exhibits and attachments to which reference is made in this Agreement are deemed incorporated in this Agreement, whether or not actually attached. References to sections are to sections of this Agreement unless stated otherwise.

**118.3 Construction of Agreement.** This Agreement shall not be construed against the Party preparing the same, shall be construed without regard to the identity of the person who drafted such and shall be construed as if all Parties had jointly prepared this Agreement and it shall be deemed their joint work product; each and every provision of this Agreement shall be construed as though all of the Parties hereto participated equally in the drafting hereof; and any uncertainty or ambiguity shall not be interpreted against any one Party. As a result of the foregoing, any rule of construction that a document is to be construed against the drafting Party shall not be applicable.

**118.4 Entire Agreement; Amendments.** This Agreement and all exhibits referred to in this Agreement constitute the final complete and exclusive statement of the terms of the agreement between City and Tenant pertaining to Tenant's use and occupancy of the Premises and, subject to the provisions of Subsection 118.32 (Prior Permits), supersedes all prior and contemporaneous understandings or agreements of



the Parties. Neither Party has been induced to enter into this Agreement by, and neither Party is relying on, any representation or warranty outside those expressly set forth in this Agreement.

**118.5 Modification in Writing.** This Agreement may be modified only by written Agreement of all Parties. Any such modifications are subject to all applicable approval processes set forth in City's Charter, City's Administrative Code, or Applicable Laws.

**118.6 Waivers.** A failure of any Party to this Agreement to enforce the Agreement upon a breach or default shall not waive the breach or default or any other breach or default. All waivers shall be in writing. The subsequent acceptance of Rent by Board shall not be deemed to be a waiver of any other breach by Tenant of any term, covenant or condition of this Agreement, other than the failure of Tenant to timely make the particular Rent payment so accepted, regardless of Board's knowledge of such other breach. No delay, failure or omission of either Party to execute any right, power, privilege or option arising from any default, nor subsequent acceptance of guarantee then or thereafter accrued, shall impair any such right, power, privilege, or option, or be construed to be a waiver of any such default or relinquishment thereof, or acquiescence therein, and no notice by either Party shall be required to restore or revive the time is of the essence provision hereof after waiver by the other Party or default in one or more instances. No option, right, power, remedy or privilege of either Party shall be construed as being exhausted or discharged by the exercise thereof in one or more instances. It is agreed that each and all of the rights, powers, options or remedies given to City by this Agreement are cumulative, and no one of them shall be exclusive of the other or exclusive of any remedies provided by law, in that the exercise of one right, power, option or remedy by City shall not impair its rights to any other right, power, option or remedy.

**118.7 Joint and Several Obligations of Tenant.** If more than one individual or entity comprises Tenant, the obligations imposed on each individual or entity that comprises Tenant under this Agreement shall be joint and several.

**118.8 Time is of the Essence.** Time shall be of the essence as to all dates and times of performance, and obligations set forth herein, whether or not a specific date is contained herein. If performance is required by the terms hereof on a Saturday, Sunday or legal holiday in California, the performance shall be made on the next business day.

**118.9 Statements of Tenant as Applicant.** This Agreement may be granted pursuant to an application filed by Tenant with Board. If the application or any of the attachments thereto contain any material misstatements of fact, Board may cancel this Agreement. Upon any such cancellation of the Agreement granted hereunder, Tenant shall quit and surrender the Premises as provided in Section 117 (Restoration and Surrender of Premises).

**118.10 Governing Law and Venue.** This Agreement is made and entered into in the State of California and shall in all respects be construed, interpreted, enforced and governed under and by the laws of the State of California, without reference to choice of

law rules. Any action or proceeding arising out of or related to this Agreement shall be filed and litigated in the state or federal courts located in the County of Los Angeles, State of California, in the judicial district mandated by applicable court rules. If either Party files or attempts to litigate an action in violation of this Subsection 118.10, the other Party shall be entitled to recover reasonable costs and attorneys' fees incurred to enforce this Subsection 118.10.

**118.11 Severability.** Should any part, term, condition or provision of this Agreement be declared or determined by any court of competent jurisdiction to be invalid, illegal or incapable of being enforced by any rule of law, public policy, or charter, the validity of the remaining parts, terms, conditions or provisions of this Agreement shall not be affected thereby, and such invalid, illegal or unenforceable part, term, condition or provision shall be treated as follows: (a) if such part, term, condition or provision is immaterial to this Agreement, then such part, term, condition or provision shall be deemed not to be a part of this Agreement; or (b) if such part, term, condition or provision is material to this Agreement, then the Parties shall revise the part, term, condition or provision so as to comply with the Applicable Law or public policy and to effect the original intent of the Parties as closely as possible.

**118.12 Termination by Court.** If any court having jurisdiction in the matter renders a final decision which prevents the performance by City of any of its obligations under this Agreement, then either Party may terminate this Agreement by written notice, and all rights and obligations hereunder (with the exception of any undischarged rights and obligations) shall thereupon terminate.

**118.13 License Fees and Taxes.** Tenant shall pay all taxes and assessments of whatever character levied upon or charged against the interest of Tenant, if any, created by this Agreement in the Premises or upon works, buildings, improvements or other property thereof, or upon Tenant's operations hereunder. Tenant shall also pay all license and permit fees required for the conduct of its operations hereunder. Any sums due and owing to City by Tenant under this Subsection 118.13, or paid by City on Tenant's behalf shall be deemed Additional Rent.

**118.14 POSSESSORY INTEREST.** TENANT IS AWARE THAT THE GRANTING OF THIS AGREEMENT TO TENANT MAY CREATE A POSSESSORY PROPERTY INTEREST IN TENANT AND THAT TENANT MAY BE SUBJECT TO PAYMENT OF A POSSESSORY PROPERTY TAX IF SUCH AN INTEREST IS CREATED.

**118.15 Waiver of Claims.** Tenant hereby waives any claim against City and Board and its officers, agents or employees for damages or loss caused by any suit or proceedings directly or indirectly challenging the validity of this Agreement, or any part thereof, or by any judgment or award in any suit or proceeding declaring this Agreement null, void or voidable or delaying the same or any part thereof from being carried out.

**118.16 Attorneys' Fees.** In any legal action or other proceeding brought to

enforce or interpret the terms of this Agreement, the prevailing party shall be entitled to "reasonable attorneys' fees" and any other costs and expenses, including but not limited to expert fees, incurred in that proceeding in addition to any other relief to which it is entitled. The "reasonable attorneys' fees" awarded under this Subsection 118.16 shall be determined by calculating the hours reasonably expended by each counsel for the prevailing party multiplied by the prevailing market hourly rate in Southern California for attorneys of comparable skill and experience.

**118.17 Conflict of Interest.** The Parties to this Agreement have read and are aware of the provisions of Section 1090 *et seq.* and Section 87100 *et seq.* of the California Government Code relating to conflict of interest of public officers and employees, as well as the Conflict of Interest Code of City's Harbor Department. All Parties hereto agree that they are unaware of any financial or economic interest of any public officer or employee of City relating to this Agreement. Notwithstanding any other provision of this Agreement, it is further understood and agreed that if such a financial interest does exist at the inception of this Agreement, City may immediately terminate this Agreement by giving written notice thereof.

**118.18 Extent of Water Frontage.** In case this Agreement, or any part thereof or any improvements made hereunder, shall be assigned, transferred, leased or subleased and the control thereof be given or granted to any person, firm, or corporation so that such person, firm or corporation shall then own, hold or control more than the length of water frontage permitted or authorized under Section 654(a) of the Charter of City, or if Tenant shall hold or control such water frontage without a four-fifths vote of the Board and a two-thirds vote of the City Council approving the control of such water frontage, then this Agreement and all rights hereunder shall thereupon and thereby be absolutely terminated, and any such attempted or purported assignment, transfer or sublease, or giving or granting of control to any person, firm or corporation, which will then own, hold or control more than such permitted or authorized length of water frontage, shall be void and ineffectual for any purpose whatsoever.

**118.19 Business Tax Registration Certification.**

118.19.1 Tenant. Tenant represents that it has registered its business with the Office of Finance of the City of Los Angeles and has obtained and presently holds from that Office a Business Tax Registration Certificate, or a Business Tax Exemption Number, required by City's Business Tax Ordinance (Article I, Chapter 2, Sections 21.00 *et seq.*, of City's Municipal Code, or its successor). Tenant shall maintain, or obtain as necessary, all such Certificates required of it under said Ordinance and shall not allow any such Certificate to be revoked or suspended during the Term of this Agreement.

118.19.2 Contractors. Tenant represents that it shall require its contractors and subcontractors to register their business with the Office of Finance of the City of Los Angeles and to obtained and hold from that Office a Business Tax Registration Certificate, or a Business Tax Exemption Number, required by City's

Business Tax Ordinance (Article 1, Chapter 2, Sections 21.00 et seq. of City's Municipal Code, or its successor) for all work done on the Premises.

118.19.3 Subtenants. Tenant represents that it shall include in all its subleases the requirement that the subtenant register its business with the Office of Finance of the City of Los Angeles and obtain and hold from that Office a Business Tax Registration Certificate, or a Business Tax Exemption Number, required by City's Business Tax Ordinance (Article 1, Chapter 2, Sections 21.00 et seq. of City's Municipal Code, or its successor) and further require that the subtenant maintain, or obtain as necessary, all such Certificates required of it under said Ordinance and not allow any such Certificate to be revoked or suspended during the Term of its sublease.

**118.20 Affirmative Action.** Tenant agrees not to discriminate in its employment practices against any employee or applicant for employment because of the employee's or applicant's race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition. All assignments, subleases and transfers of interest in this Agreement under or pursuant to this Agreement shall contain this provision. The provisions of Section 10.8.4 of the Los Angeles Administrative Code as set forth in the attached Exhibit "L" are incorporated herein and made a part hereof.

**118.21 Service Contractor Worker Retention Policy and Living Wage Policy Requirements.** The Board adopted Resolution No. 5771 on January 3, 1999, agreeing to adopt the provisions of Los Angeles City Ordinance No. 171004 relating to Service Contractor Worker Retention ("SCWR"), Section 10.36 et seq. of the Los Angeles Administrative Code, as the policy of City's Harbor Department. Further, Charter Section 378 requires compliance with the City's Living Wage requirements as set forth by ordinance, Section 10.37 et seq. of the Los Angeles Administrative Code. Tenant shall comply with the policy wherever applicable. Violation of this provision, where applicable, shall entitle the City to terminate this Agreement and otherwise pursue legal remedies that may be available.

**118.22 Wage and Earnings Assignment Orders/Notices of Assignments.** Tenant is obligated to fully comply with all applicable state and federal employment reporting requirements for the Tenant and/or its employees. Tenant shall certify that the principal owner(s) are in compliance with any Wage and Earnings Assignment Orders/Notices of Assignments applicable to them personally. Tenant shall fully comply with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignments in accordance with Cal. Family Code Section 5230 et seq. Tenant shall maintain such compliance throughout the term of this Agreement.

**118.23 Equal Benefits Policy.** The Board adopted Resolution No. 6328 on January 12, 2005, agreeing to adopt the provisions of Los Angeles City Ordinance No. 172,908, as amended, relating to Equal Benefits, Section 10.8.2.1 et seq. of the Los Angeles Administrative Code, as a policy of City's Harbor Department. Tenant shall

comply with the policy wherever applicable. Violation of the policy shall entitle the City to terminate any agreement with Tenant and pursue any and all other legal remedies that may be available.

**118.24 State Tidelands Act, Grants and Trusts; City Charter.** This Agreement is entered into in furtherance of and as a benefit to the State Tidelands Grant and the trust created thereby. Therefore, this Agreement, the Premises and Tenant's use and occupancy thereof, is at all times subject to the limitations, conditions, restrictions and reservations contained in and prescribed by the Act of the Legislature of the State of California entitled "An Act Granting to the City of Los Angeles the Tidelands and Submerged Lands of the State Within the Boundaries of Said City", approved June 3, 1929 (Stats. 1929, Ch. 651), as amended, ("Act") and provisions of Article VI of the Charter of the City of Los Angeles ("Charter") relating to such lands. Tenant agrees that any interpretation of this Agreement and the terms contained herein must be consistent with such limitations, conditions, restrictions and reservations of the Act and the Charter. Tenant further agrees that it shall not undertake any use of the Premises, even a Permitted Use, which is or will be inconsistent with such limitations, conditions, restrictions and reservations.

**118.25 Disclosure Laws.** Tenant acknowledges that City is subject to laws, rules and/or regulations generally requiring it to disclose records upon request, which laws, rules and/or regulations include but are not limited to the California Public Records Act (California Government Code Sections 6250 et seq.) ("Disclosure Laws"). Tenant further acknowledges City's obligation and intent to comply with such Disclosure Laws in all respects. Notwithstanding the foregoing, in the event that City receives a request for disclosure of records in connection with this Agreement, which Tenant has designated in writing as confidential, City shall immediately notify Tenant in writing, enclosing a copy of such request, at which point Tenant may take whatever steps deemed appropriate, including but not limited to seeking a protective or other order excusing disclosure from a court of competent jurisdiction. In the absence of such an order from a court of competent jurisdiction excusing City from its disclosure obligations, City shall undertake whatever action is necessary to comply with the requirements imposed by the applicable Disclosure Laws. In the event that any action is filed by Tenant and/or by any requester of information where Tenant elects to challenge all or any part of the requested disclosure, and City is named as a party to that action, Tenant shall defend and hold City and City's former, present and future boards, elected and appointed officials, employees, officers, directors, representatives, agents, departments, subsidiary and affiliated entities, assigns, insurers, attorneys, predecessors, successors, divisions, subdivisions and parents, and all persons or entities acting by and through, under, or in concert with any of the foregoing, harmless from any and all defense costs and judgments or settlements in any such action as well as all other losses and expenses arising out of or related to such action.

## **118.26 Visual Artists' Rights Act.**

118.26.1 Generally. Tenant shall not install, or cause to be installed, any work of art subject to the Visual Artists' Rights Act of 1990 (as amended), 17 U.S.C. 106A, et seq., or California Civil Code Section 980, et seq., (hereinafter collectively "VARA") on or about the Premises without first obtaining a waiver in writing, of all rights under VARA, satisfactory to the Executive Director and approved as to form and legality by the City Attorney's Office, from the artist. Said waiver shall be in full compliance with VARA and shall name City as a party for which the waiver applies.

118.26.2 Prohibition. Any work of art installed, or caused to be installed, by Tenant without the prior written authorization of the Executive Director shall be deemed a trespass, removable by City, by and through its Executive Director, upon three (3) days written notice, all costs, expenses and liability therefor to be borne exclusively by Lessee.

118.26.3 Indemnity. Tenant, in addition to other obligations to indemnify and hold City harmless, as more specifically set forth in this Agreement, shall indemnify and hold harmless City from all liability resulting for Tenant's failure to obtain the artist's waiver of VARA and failure to comply with any portion of this Subsection 118.28.

118.26.4 Cumulative Remedy. The rights afforded the City under this Subsection 118.26 shall not replace any other rights afforded City in this Agreement or otherwise, but shall be considered in addition to all its other rights.

**118.27 Supervision of Business Practices.** The nature and manner of conducting any and all business activities on the Premises shall be subject to reasonable regulation by the Board. In the event such business is not conducted in a reasonable manner as determined by the Board, it may direct that corrective action be taken by Tenant or its sublessees to remedy such practices and upon failure to comply therewith within thirty (30) days of Tenant receiving such written notice, the Board may declare this Agreement terminated.

**118.28 Tenant Name Change.** Tenant shall promptly, and in no case later than fifteen (15) days after a change in name, notify the Executive Director in writing of any changes to its name, or contact or delivery information, set forth in the preamble, or the notification sections, of this Agreement.

**118.29 Signs.** Tenant shall not erect or display, or agree to be erected or displayed, on the Premises, or upon works, buildings and improvements made by Tenant, any advertising matter of any kind, including signs, without first obtaining the written consent of the Executive Director and a Harbor Engineer's General Permit.

**118.30 Ownership of Improvements.** During the Term of the Agreement, title to all structures, improvements, or facilities, constructed or installed by Tenant ("Tenant

Improvements”) and all alterations constructed or installed by Tenant on Tenant Improvements shall remain in Tenant. Upon termination of this Agreement, all Tenant Improvements or alterations, other than machines, equipment, trade fixtures and similar installations of a type normally removed without structural damage to the Premises, shall become a part of the land upon which they are constructed, or of the building on which they are affixed, and title thereto shall thereupon vest in City unless, however, City requests Tenant to remove some or all of said improvements, in which case Tenant shall promptly remove such improvements at Tenant’s sole cost and expense. In the event of removal of any improvements, Tenant shall comply with the restoration obligations of Section 111 (Indemnity and Insurance). Notwithstanding the foregoing, in the event that the Harbor Department ascertains a need to acquire Tenant owned assets prior to title to those assets vesting in City, straight-line depreciation shall be applied to determine the purchase price.

**118.31 Promotion of Los Angeles Harbor Facilities.** Tenant shall in good faith and with all reasonable diligence use its best efforts by suitable advertising and other means to promote the use of the Premises granted by this Agreement.

**118.32 Prior Permits.** To the extent that Tenant and/or its predecessors or Affiliates used or occupied the Premises pursuant to prior agreements, from and after the Effective Date of this Agreement, Tenant’s use and occupancy of the Premises shall be governed by this Agreement; provided, however, that any provisions which survive termination or expiration of such prior agreements by the terms of the prior agreement or operation of law shall continue in full force and effect unless specifically stated otherwise in Article 1 of this Agreement.

**118.33 No Third Party Beneficiaries.** Nothing in this Agreement shall be deemed to confer upon any Person (other than City, Tenant or Tenant’s lender) any right to insist upon, or to enforce against City or Tenant, the performance or observance by either Party of its obligations under this Agreement.

**118.34 Successors.** This Agreement shall be binding upon and shall inure to the benefit of the successors and assigns of City and shall be binding upon and inure to the benefit of the successors and permitted assigns and sublessees of Tenant.

**118.35 Proprietary Capacity.** The capacity of City in this Agreement shall be as lessor only (“Proprietary Capacity”), and any obligations or restrictions imposed by this Agreement on City shall be limited to that capacity and shall not relate to, constitute a waiver of, supersede or otherwise limit or affect the governmental capacities of City, including enacting laws, inspecting structures, reviewing and issuing permits, and all of the other legislative and administrative or enforcement functions of each pursuant to federal, State or local law (“Governmental Capacity”). Whenever not expressly otherwise stated, (a) City, when acting in its Proprietary Capacity, shall not unreasonably withhold its approvals to matters requiring its approval hereunder, (b) Tenant shall not unreasonably withhold its approval to matters requiring its approval hereunder and (c) City, when acting

in its Governmental Capacity, shall be permitted to utilize its sole discretion with respect to matters requiring its approval hereunder.

**118.36 Executive Director Authority.** Whenever this Agreement refers to an action to be taken by the Executive Director, to the extent permitted by Applicable Law, that action may be taken by the Executive Director or the Executive Director's designee.

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**[Signature page follows]**



**IN WITNESS WHEREOF**, the Parties hereto have executed this Agreement on the date to the left of their signatures.

THE CITY OF LOS ANGELES, by  
Its' Board of Harbor Commissioners

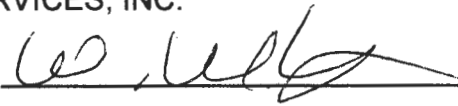
Dated: \_\_\_\_\_, 20\_\_

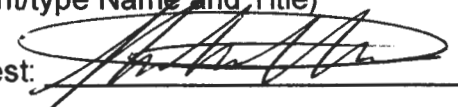
By: \_\_\_\_\_  
EUGENE D. SEROKA  
Executive Director

Attest: \_\_\_\_\_  
AMBER M. KLESGES  
Board Secretary

INNOVATIVE TERMINAL  
SERVICES, INC.

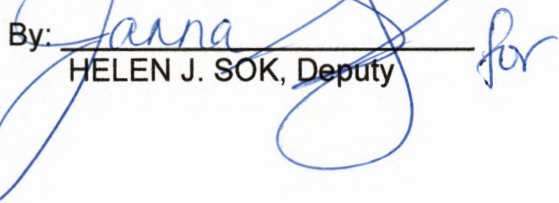
Dated: February 26, 2021

By:   
W. Michael Hawke, President  
\_\_\_\_\_  
(Print/type Name and Title)

Attest:   
\_\_\_\_\_  
Kent M. Phillips, CFO  
\_\_\_\_\_  
(Print/type Name and Title)

APPROVED AS TO FORM AND LEGALITY

March 4, 2021  
MICHAEL N. FEUER, City Attorney  
JANNA B. SIDLEY, General Counsel

By:   
HELEN J. SOK, Deputy *for*

## ATTACHMENT 1 - Glossary of Terms

**“ACTA”** means the Alameda Transportation Corridor Authority or its successor entity.

**“Additional Rent”** means the monetary sum, in U.S. Dollars, Tenant shall pay to City for its use and occupancy of the Premises above the Base Rent as set forth in Article 1, Section 4 of this Agreement.

**“Adjusted Base Rent”** means the adjustment to the Base Rent which occurs every five (5) years of the Term pursuant to Article 1, Section 4 of this Agreement.

**“Aggregate Contamination”** means the aggregate of Term Contamination and Pre-existing Contamination so as to constitute, without regard to source, cause or time, the totality of contamination of improvements, adjacent harbor waters, soil, sediment, groundwater or air of the Premises or of adjacent premises (including soil, sediment, groundwater or air of those adjacent premises) by Environmentally Regulated Material, and contamination that is considered a nuisance under Applicable Laws.

**“Affiliate”** means, when used with reference to a specified person or entity, any person or entity which directly or indirectly controls, is controlled by or is under common control with the specified person or entity. A person or entity shall be regarded as in control of another entity if it owns or is under common ownership or directly or indirectly controls at least fifty (51%) of the voting stock or other equity interests of the other entity, or in the absence of ownership of at least fifty percent (51%) of the voting securities of an entity, if it possesses, directly or indirectly, the power to direct or cause the direction of the management and policies of such entity.

**“Alteration”** or **“Alterations”** means improvements, alterations, additions or changes to the Premises including, without limitation, the construction of works or improvements or the changing of the grade of the Premises, except as otherwise stated in this Agreement.

**“Annual Adjustment Date”** shall have the meaning set forth in Article 1, Subsection 4.3.1.

**“Applicable Laws”** means any and all federal, state, county or governmental agency laws, statutes, ordinances, standards, codes (including, without limitation, all building codes) rules, requirements, or orders in effect now or hereafter in effect pertaining to the use or condition of the Premises and/or Tenant’s operation and conduct of its business. Applicable Laws shall include, but not be limited to, all environmental laws and regulations in effect now or hereafter in effect including: (a) CERCLA and its implementing regulations; (b) RCRA and its implementing regulations; (c) The Federal Clean Water Act (33 U.S.C. Sections 1251-1376, *et seq.*) its implementing regulations; (d) The California

Porter Cologne Water Quality Control Act (California Water Code, Division 7) and its implementing regulations; (e) The Federal Clean Air Act (42 U.S.C. Section 7401-7601) and its implementing regulations; (f) The California Clean Air Act of 1988 and its implementing regulations; (g) The California Lewis-Presley Air Quality Management Act of 1976 and its implementing regulations; and (h) Any other applicable federal, state, or local law, regulation, ordinance, order, resolution or requirement (including consent decrees and administrative orders imposing liability or standard of conduct) now or hereafter in effect which concerns Environmental Regulated Material, the Premises and/or Tenants use and/or occupancy of the Premises.

**“Application for Port Permits”** or **“APP”** means the application required to be submitted by Tenant for all alterations to the Premises. An APP is also required for all non-development projects such as new leases or permits, lease or permit renewals, lease or permit amendments, events, parking requests for events and foreign trade zone agreements. All references to Application for Port Permits or APP shall also mean any successor application process adopted by the Harbor Department.

**“Assignment”** means the transfer, or assignment of this Agreement, in whole or in part, in any manner including without limitation the involvement of Tenant or its assets in any transaction, or series of transactions (by way of merger, sale, acquisition, financing, transfer, leveraged buyout or otherwise) whether or not there is a formal assignment or hypothecation of this Agreement or Tenant’s assets, which involvement results in a reduction of the net worth of Tenant (defined as the net worth of Tenant, excluding guarantors, established by generally accepted accounting principles) by an amount greater than twenty-five percent (25%) of such net worth as it was represented at the time of the execution of this Agreement, or at the time of the most recent Transfer to which City has consented, or as it exists immediately prior to said transaction or transactions constituting such reduction, whichever was or is greater. For purposes of this definition, the term "by operation of law" includes but is not limited to: (1) the placement of all or substantially all of Tenant's assets in the hands of a receiver or trustee; or (2) a transfer by Tenant for the benefit of creditors; or (3) transfers resulting from the death or incapacity of any individual who is a Tenant of, or a general partner of, a Tenant.

**“Assignor”** means collectively any transferor or assignor of Tenant’s interest in the Premises, or any portion thereof, including any and all entities that occupied the Premises prior to Tenant and actually or purportedly transferred or assigned its right of occupancy to Tenant either contractually or under operation of law, including any “Transfer” as defined in Article 2, Section 113, whether or not there was a written assignment or approval of the assignment by City.

**“Appraisal Process”** means the process set forth in Article 1, Subsection 4.3.2.2, to resolve disputed Adjusted Base Rent.

**“Backlands”** means the land area beyond 200 feet inland from the top of the bank.

**“Baseline Condition”** shall have the meaning set forth in Article 2, Subsection 104.2.

**“Base Rent”** means the monetary sum, in U.S. Dollars, Tenant shall pay to City for its use and occupancy of the Premises per Compensation Year, excluding Tariff Charges and other Additional Rent, as set forth in Article 1, Section 4 of this Agreement.

**“Board”** means the Board of Harbor Commissioners of the Harbor Department of the City of Los Angeles.

**“Casualty”** means damage or destruction of the improvements on the Premises.

**“CEQA”** means the California Environmental Quality Act, Sections 21000 et. seq. of the Public Resources Code and the CEQA Guidelines set forth at 14 California Code of Regulations Sections 15000 et. seq.

**“Charter”** or **“City Charter”** means the Charter of the City of Los Angeles as it may be amended from time to time.

**“Chief Harbor Engineer”** means the Chief Harbor Engineer, Engineering Division of the Harbor Department, or successor designations should that title be renamed or redesignated during the Term.

**“City”** means the City of Los Angeles, a municipal corporation.

**“City Council”** means the Council of the City of Los Angeles, the legislative body of the City pursuant to Section 20 of the Charter of the City of Los Angeles.

**“City Costs”** or **“City’s Costs”** means the costs, determined in the City’s sole reasonable discretion, for any work performed by or for City to comply with a Tenant obligation under this Agreement including, without limitation, the cost of maintenance or repair or replacement of property neglected, damaged or destroyed, including direct and allocated costs for labor, materials, services, equipment usage, and other indirect or overhead expenses arising from or related to maintenance, repair or replacement work performed by or on behalf of City; for the processing of any approvals or consents required or requested by Tenant; for the cost of processing an APP for the Tenant’s Premises; and, for the cost of complying with any Governmental Agencies’ orders which were the responsibility of Tenant.

**“City Improvements”** means those improvements on the Premises owned by the City.

**“Compensation Year”** means the twelve (12) month period from the Effective Date and every twelve month period thereafter.

**“Condemnation”** means the taking of property through acquisition or damage of all or part of the Premises by a Government Agency having the power of eminent domain.

**“County”** means the County of Los Angeles.

**“CPI-U”** means the Consumer Price Index for All Items, All Urban Consumers for the Los Angeles-Long Beach-Anaheim, California area, 1982-84=100 as published by the U.S. Department of Labor, Bureau of Labor Statistics, or a successor index selected by the Executive Director of the Harbor Department in the Executive Director’ sole reasonable discretion.

**“Effective Date”** is the date specified in Article 1, Subection 3.1 of this Agreement.

**“Environmental Compliance Requirements”** means the requirements identified in Exhibit “I” as set forth in Article 2, Subsection 104.6.1. Generally this term encompasses the MMRP, Lease Measures, and any other environmental compliance and/or reporting requirements related to Tenant’s environmental obligations set forth in Article 2, Section 104 of this Agreement.

**“Environmental Agency”** means the United State Environmental Protection Agency; the California Environmental Protection Agency and all of its sub-entities including without limitation the Regional Water Quality Control Broad - Los Angeles Region, the State Water Resources Control Board, the Department of Toxic Substances Control and the California Air Resources Board; the City of Los Angeles; the County of Los Angeles; the South Coast Air Quality Management District; the United States Environmental Protections Agency; and/or any other federal, state or local governmental agency or entity that has jurisdiction over Hazardous Substances Releases or the presence, use, storage, transfer, manufacture, licensing, reporting, permitting, analysis, disposal or treatment of Hazardous Substances in, on, under, about or affecting the Property. All references to an Environmental Agency or Agencies shall mean and include any successor Environmental Agency.

**“Environmental Laws”** means the environmental laws and implementing regulations which are a subset of the Applicable Laws and which are applicable to the Premises and/or Tenant’s use and/or occupancy thereof, in their form as of the Effective Date or as subsequently amended, or as may be promulgated during the term of this Agreement or any holdover. Such Environmental Laws include but are not limited to:

- (a) CERCLA and its implementing regulations;
- (b) RCRA and its implementing regulations;
- (c) The federal Clean Water Act (33 U.S.C. Sections 1251–1376, et seq.) and its implementing regulations;

- (d) The California Porter Cologne Water Quality Control Act (California Water Code, Division 7) and its implementing regulations;
- (e) The federal Clean Air Act (42 U.S.C. Sections 7401-7601) and its implementing regulations;
- (f) The California Clean Air Act of 1988 and its implementing regulations;
- (g) The state Lewis Air Quality Act of 1976 and its implementing regulations; and
- (h) Any other applicable federal, state, or local law, regulation, ordinance or requirement (including consent decrees and administrative orders imposing liability or standard of conduct) now or hereinafter in effect which concerns Environmentally Regulated Material, the Premises and/or Tenant's use and/or occupancy thereof.

**“Environmentally Regulated Material”** means any hazardous or toxic substance, material, or waste at any concentration that is or becomes regulated by the United States, the State of California, or any local or governmental authority having jurisdiction over the Premises. Environmentally Regulated Material includes but is not limited to:

- (a) Any “hazardous substance” as that term is defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (“CERCLA”) (42 U.S.C. Sections 9601-9675) in its present or successor form;
- (b) “Hazardous waste” as that term is defined in the Resource Conservation and Recovery Act of 1976 (“RCRA”) (42 U.S.C. Sections 6901-6992k) in its present or successor form;
- (c) Any pollutant, contaminant, or hazardous, dangerous, or toxic chemical, material or substance, within the meaning of any other applicable federal, state, or local law, regulation, ordinance or requirement (including consent decrees and administrative orders imposing liability or standard of conduct concerning any hazardous, dangerous or toxic waste, substance or material, now or hereinafter in effect);
- (d) Radioactive material, including any source, special nuclear, or byproduct material as defined in 42 U.S.C. Sections 2011-2297g-4 in its present or successor form;
- (e) Asbestos in any form or condition;
- (f) Polychlorinated biphenyls (“PCBs”) and substances or compound containing PCBs; and

(g) Petroleum products.

**“Executive Director”** means the Harbor Department’s Executive Director referred to in the Charter of the City of Los Angeles and any other person authorized by the Board to act for the Executive Director or the Board or the designee of the Executive Director.

**“Existing Improvements”** means the improvements existing on the Premises as of the Effective Date of this Agreement.

**“Expiration Date”** is the date set forth in Article 1, Subsection 3.2 of this Agreement.

**“Fair Market Rental”** means the most probable rent that a property should bring in a competitive market reflecting all conditions and restrictions of the lease agreement, including permitted uses, use restrictions and tenant improvements.

**“Five-Year Adjustment Period”** means each five (5) year period of the Term of this Agreement which is subject to rental adjustment pursuant to Article 1, Section 4, of this Agreement.

**“Force Majeure”** shall have the meaning set forth in Article 2, Section 110 of this Agreement.

**“Governmental Agency”** or **“Governmental Agencies”** means any and all federal, state, county, municipal and local governmental and quasi-governmental bodies and authorities (including the United States of America, the State of California, the City, the County of Los Angeles, and any political subdivision, public corporation, district or other political or public entity) or departments or joint power authorities thereof having or exercising jurisdiction over the parties, the Premises, or such portions thereof as the context indicates.

**“Governmental Authority”** means any court, federal, state or local government, department, commission, board, bureau, agency or other regulatory, administrative, governmental or quasi-governmental authority, including the City of Los Angeles, of the United States of America, including any successor agency.

**“Governmental Capacity”** means City acting in its authorized capacity as the City of Los Angeles, a municipal corporation, as set forth in Article 2, Subsection 118.35.

**“Government Entities”** or **“Governmental Agency or Agencies”** means any and all federal, state, county, municipal and local governmental and quasi-governmental bodies and authorities (including the United States of America, the State of California, the City, the County, and any political subdivision, public corporation, district or other political or public entity) or departments or joint power authorities thereof having or exercising

jurisdiction over the parties, the Premises, or such portions thereof as the context indicates.

**“Harbor Department”** or **“Department”** means the Harbor Department of the City of Los Angeles.

**“Harbor District”** is as defined in Section 651(a) of City’s Charter or in any successor provision of City’s Charter.

**“Chief Harbor Engineer’s General Permit”** or **“Harbor Engineer’s General Permit”** means the permit issued by the Chief Harbor Engineer to undertake works or improvements in the Harbor District.

**“Harbor Engineer”** means the Chief Harbor Engineer of the Harbor Department of the City of Los Angeles or the Harbor Engineer’s designee.

**“Improvement”** means, unless otherwise specified, building or buildings, but may be any permanent structure or other development such as, but not limited to, a street or utilities.

**“Labor Disturbance”** has the meaning set forth in Article 2, Subsection 103.2.4 of this Agreement.

**“Market Rent”** means the most probable rent that a property should bring in a competitive and open market reflecting all conditions and restrictions of the lease agreement, including permitted uses, use restrictions, expense obligations, term, concessions, renewal and purchase options, and tenant improvements.

**“Major Casualty”** means any casualty, whether covered by insurance or not, whose repair would exceed ten percent (10%) of the replacement cost of the damaged or destroyed improvements.

**“Minor Casualty”** means any casualty, whether covered by insurance or not, which is not a Major Casualty.

**“Mitigation Monitoring and Reporting Program”** or **“MMRP”** means the Mitigation Monitoring and Reporting and Program described in Exhibit “I”, herein.

**“Non-Harbor Department Permits”** means permits issued by entities other than the Harbor Department, which entities include other departments of City, which may be necessary to undertake works or improvements in the Harbor District.

**“Partial Taking”** means the Condemnation of all or a portion of the Premises which does not substantially impair Tenant’s use of the Premises for the Permitted Uses.

**“Party”** and **“Parties”** is defined in the introductory paragraph of this Agreement.



**“Permitted Uses”** means the uses set forth in Article 1, Section 5 of this Agreement.

**“Person”** means individuals, partnerships, firms, associations, corporations, trusts and any other form of governmental or business entity, and the singular shall include the plural.

**“Port Environmental Policy”** means all applicable environmental policies, rules, orders and directives of the Harbor Department as they exist on the Effective Date and as they may be enacted, amended or modified from time to time.

**“Premises”** means the land and improvements depicted in Exhibit “A”, and as subsequently may be adjusted pursuant to the terms of this Agreement.

**“Proprietary Capacity”** is as defined in Article 2, Subsection 118.35, of this Agreement.

**“Rent”** means the combined Base Rent and Additional Rent due from Tenant to City for the use and occupancy of the Premises.

**“Reset Date”** means every fifth anniversary of the Effective Date as set forth in Article 1, Subsection 4.2.2.

**“Severance Damages”** means the compensation due to a property owner for the decrease in value of the remaining property where the Condemnation is for a portion of a larger property whose value has been diminished as a result of severance of the condemned property from the larger property.

**“Site Vacation Plan”** is as defined in Article 2, Subsection 117.2.1 of this Agreement.

**“State Tidelands Act”** means the Act of the Legislature of the State of California entitled “An Act Granting to the City of Los Angeles the Tidelands and Submerged Lands of the State Within the Boundaries of Said City” (Stats. 1929, Ch. 651) as amended, and as it may be amended from time to time.

**“Submerged Lands”** means land area that is located underwater from the pierhead line toward the channel line.

**“Subsurface Land”** means the land area which has a depth of more than three (3) feet beneath the surface.

**“Taking”** means the acquisition through condemnation, inverse condemnation, or agreement in lieu of condemnation, of the Premises or any part thereof.

**“Tariff”** means Tariff No. 4 of City of Los Angeles’ Harbor Department as it may be amended from time to time.

**“Tariff Charges”** means all charges due and owing by Tenant under the Tariff on account of Tenant’s use and occupancy of the Premises.

**“Tax”** or **“Taxes”** means the aggregate of any federal, state or local or foreign income, gross receipts, license, payroll, employment, excise, severance, stamp, occupation, business, premium, windfall profits, environmental, customs duties, permit fees, capital stock, franchise, profits, withholding, social security (or similar), unemployment, disability, good and services, water, school, real property, possessory interest, personal property, sales, use, transfer, registration, value added, multi-staged, alternative or add-on minimum, special, estimated or other tax, levy, impost, stamp tax, duty, fee, withholding or similar imposition of any kind whatsoever payable, levied, imposed, collected, withheld or assessed at any time, including any interest, penalty or addition thereto, whether disputed or not, including in each case utility rates or rents, upon, concerning or applicable to the Premises, any fixtures, machinery and equipment installed or maintained on the Premises, the improvements and the use and operation of the Premises by any Governmental Authority.

**“Temporary Taking”** means the Condemnation of all or a portion of the Premises for a specified period of time.

**“Tenant Improvements”** means those improvements on the Premises which are built by the Tenant and whose ownership has not vested in City.

**“Tenant’s use”** and **“Tenant’s use and occupancy”** means, unless otherwise stated or evident from the context in which the term is used, the use of the Premises by Tenant, its employees, contractors, subcontractors, licensees, invitees, suppliers or anyone else present at the Premises pursuant to Tenant’s invitation or permission.

**“Term”** means the term of this Agreement, which shall commence on the Effective Date and end on the Expiration Date or earlier termination of this Agreement.

**“Term Characterization Report”** shall mean the written report submitted by Tenant to City, the sufficiency of which is subject to City’s reasonable approval, that details all findings made as a result of performing the Term Characterization Work Plan and that is in conformance with state and federal laws and regulations.

**“Term Characterization Work Plan”** shall mean the written work plan submitted by Tenant to City, the sufficiency of which is subject to City’s reasonable approval, that details all work (including sampling and analysis) necessary to generate a written characterization of the nature and extent of contamination (including contamination of air, soil, sediment and water) caused by a Term Release or Term Releases and that includes detailed programs for sampling and chemical analysis of soil and groundwater, which programs shall conform with all Environmental Laws, accepted principles of

environmental science, established regulatory protocols and the approval of the Harbor Department.

**“Term Contamination”** means all contamination of improvements, adjacent harbor waters, soil, sediment, groundwater or air of the Premises or the adjacent premises (including soil, sediment, groundwater or air of those adjacent premises) resulting from all Term Releases and contamination that is consider a nuisance under Applicable Laws.

**“Term Release”** shall mean a spill, discharge or any other type of release of Environmentally Regulated Material that occurs on the Premises during the term of this Agreement or any holdover, whether caused by Tenant or a third-party, including any Assignor (other than invitees under a temporary assignment pursuant to Subsection 102.6 (Temporary Assignments) or third-parties whose access to the Premises has been requested by City pursuant to Subsection 102.2 (Reservations), that contaminates or threatens to contaminate New Improvements, adjacent harbor waters, soil, sediment, groundwater or air of the Premises or of adjacent premises (including soil, sediment, groundwater or air of those adjacent premises).

**“Term Remediation Action Plan”** shall mean the written plan submitted by Tenant to City, the sufficiency of which is subject to City’s reasonable approval, that addresses remediation of all contamination caused by Environmentally Regulated Material in soil, harbor waters, and groundwater and sediment as identified in the Term Characterization Report, that conforms with Tenant’s obligations as set forth Section 104, and that includes a discussion of remedial action alternatives for restoration of the Premises and a timetable for each phase of restoration. The Term Remediation Action Plan shall comply with Environmental Laws, established regulatory protocols and accepted principles of environmental science.

**“Tidelands”** means the land between the ordinary high tide and the mean low tide.

**“Total Taking”** means the Condemnation of all or a substantial portion of the Premises which renders the Premises unsuitable for the Permitted Uses.

**“Transfer”** means the transfer, assignment or subletting of the Premises as fully defined in Article 2, Section 113 of this Agreement.

**“Transferee”** means the person, entity or entities with whom Tenant proposes to undertake a Transfer.

**“Transfer Notice”** means the written notice required to be submitted by Tenant as set forth in Article 2, Subsection 113.3.1 of this Agreement.

**“Transfer of Ownership”** means the transfer defined in Article 2, Subsection 113.2 of this Agreement.

**“Waterfront Property”** means the land area from the pierhead line extending inland to the top of the bank, plus 200 feet inland from the top of the bank.



## **EXHIBIT B – EXISTING IMPROVEMENTS/LOAD LIMITS**

### **LOAD LIMITS:**

- Asphalt concrete over crushed miscellaneous base and compacted subgrade. Pavement is designed for loading for two wheels of 125,000 pounds (which includes 25% Impact) spaced at 13 feet on-center With a wheel print of 495 square feet to support Caterpillar V925 type top-pick container handling equipment operating with a 40 long ton (LT) load and four high stacking of normally loaded containers.

### **EXISTING IMPROVEMENTS:**

- 1 Electrical Transformer
- 2 Electrical Meters
- 3 Electrical Panel Boards
- 3 High Mast Light Fixtures
- 14 Standard Light Fixtures

## **EXHIBIT C – APPRAISER QUALIFICATIONS**

Any appraisals that provide opinions of market value shall be performed by an appraiser whose business is located in Los Angeles or Orange Counties and hold a Certified General Appraiser classification within the State of California obtained through the qualification procedures set forth by the California Office of Real Estate Appraisers (OREA) and be a member in good standing with the Appraisal Institute and hold the designation of MAI. A copy of all licenses and certifications shall be submitted prior to commencement of work.

Any appraiser selected to perform an appraisal of Harbor Department related properties (total property, land and/or improvements) shall have working knowledge of port related properties that is appropriate for the work being performed.

## EXHIBIT D – APPRAISER SCOPE OF WORK

Appraisers performing work under Article 1, Section 4 of this Agreement shall prepare appraisal reports in strict conformity with the scope of work set forth herein (“Appraisal Report”). This scope of work incorporates by reference as if fully set forth herein all terms defined in the Agreement to which it is attached.

### Format Requirements for Appraisal Reports:

The Appraisal Report shall be presented in a letter size bound report. The Appraisal Report shall include a confidentiality agreement in a form prepared by the Office of the City Attorney of the City of Los Angeles. The Appraisal Report shall include a letter of transmittal that clearly states all of the real property conclusions and all extraordinary assumptions of the report and the bases underlying each conclusion and assumption. The letter of transmittal shall also contain a brief description of the interest appraised, dates of value, date of report, client, intended use, intended user, type of appraisal, report type and signature. The Appraisal Report shall be self-contained and shall fully comply with the latest edition of the Uniform Standards of Professional Appraisal Practice (“USPAP”) and this Appraisal Scope of Work. In addition to the letter of transmittal, the Appraisal Report shall contain an executive summary or summary of salient facts.

### Content Requirements for the Appraisal Report:

#### *Subject Property*

The premises identified and defined in Article 1, Section 2 of the Agreement, which include land and improvements, if any (“Premises”).

#### *Interest Appraised*

The Market value and market rent of the Premises. Market value shall be determined for the as is, fee simple interest of the Premises based upon the highest and best use. Market Rent shall be established in accordance with the Leasing Policy of the Harbor Department which defines Market Rent as “the most probable rent that a property should bring in a competitive and open market reflecting all conditions and restrictions of the lease agreement, including permitted uses, use restrictions and tenant improvements.”

#### *Date of Appraisal*

The Appraisal Report shall include the date that the report was completed.

#### *Date of Value*

The date of value shall be the date of commencement of the Reset Date for the relevant Five-Year Adjusted Period, as defined in Article 1, Section 4 of the Agreement.



### *Scope of Appraisal*

The Appraisal Report shall determine the market value and rental value of the Premises as stated above under *Interest Appraised*. The opinions of value will be set forth on a value per-square-foot unit of comparison. The Appraisal Report shall contain the following information and analysis:

Externalities: Information, including but not limited to:

- analysis of national, regional and local economic trends and other relevant forces that influence or impact property values;
- descriptions of the immediate and surrounding economic and geographic areas;
- descriptions of the Premises' access features;
- availability and market characteristics of comparable properties;
- impact of Port of Los Angeles and Port of Long Beach activities; and
- a conclusion as to the social, economic, governmental and environmental characteristic of the Premises.

### Highest and Best Use

The Appraisal Report shall include a highest and best use analysis of the Premises as improved and as if vacant.

### Zoning

The Appraisal Report shall include a discussion of current zoning including designation, height restrictions, permitted uses, setbacks, coverage ratios, FARs, landscaping and parking requirements.

### Comparable Information

Each comparable land sale, improved sale, rental comparable and rate of return comparable shall be described in detail on a separate data sheet that shall include the verification date and source, as well as all other important information. Additionally, the Appraisal Report must include an adjustment grid that delineates each item of adjustment as well as the direction and amount of each adjustment made. All adjustments are to be discussed in the pertinent analysis section of the Appraisal Report.

### Method of Appraisal

The Appraisal Report shall describe all information analyzed, the appraisal procedures followed, and the reasoning that supports the analysis, opinions and conclusions. All appraisal methods shall be considered and all appropriate appraisal methods shall be applied, however as a minimum, the sales comparison

and income approaches to value must be included. If standard approaches to value are not included, the report must contain a discussion of the reason for the exclusions.

#### The Income Capitalization Approach

This required valuation approach will include an estimate of market rent and market value of the Premises. Values will be estimated base on the direct capitalization approach or a discounted cash flow methodology. Direct land, building and or total property capitalization rates will be derived from verified comparable sale properties with similar characteristics. Discounted cash flow analyses will contain internal rates of return derived from investor surveys and interviews with buyers of verified comparable sales. Comparables will consist of similar use San Pedro Bay properties or industrial zoned properties within a 15 mile radius of the Port of Los Angeles (“POLA-Adjacent Properties”).

#### The Cost Approach

This analysis, if applied, will value the improvements as a whole and will set forth the reproduction cost new, including direct costs, indirect costs, and entrepreneurial profit. Indirect costs shall include, but not be limited to, construction interest and costs, long-term financing costs, insurance, taxes, fees, permits architectural and engineering fees, site costs, land holding costs, utility connection fees and an estimate of construction time. A depreciation analysis will estimate total life, remaining economic life, effective age, and total accrued depreciation from all forms. This approach to market and rental value will reconcile total value for the land, improvements and or total property considered as a whole and the individual estimates for each area of appraised classification. When applied to estimate land value and rent, the analysis will abstract the value the land from the value of the total property by deducting the depreciated value of the improvements.

#### The Sales Comparison Approach

This required valuation method will include, where relevant, a direct comparison of sales or leases of similar use in San Pedro Bay or POLA-Adjacent Properties. These property types may include: office, retail, R & D and industrial properties as well as arms-length lease comparables from within the Port of Los Angeles.

In identifying similar properties as comparables, the appraiser shall consider factors including, but not necessarily limited to, the following: use (commercial versus noncommercial); size, location, water and non-water access; other occupancy cost and fees, unique taxes, tariffs and levies, operating rules and

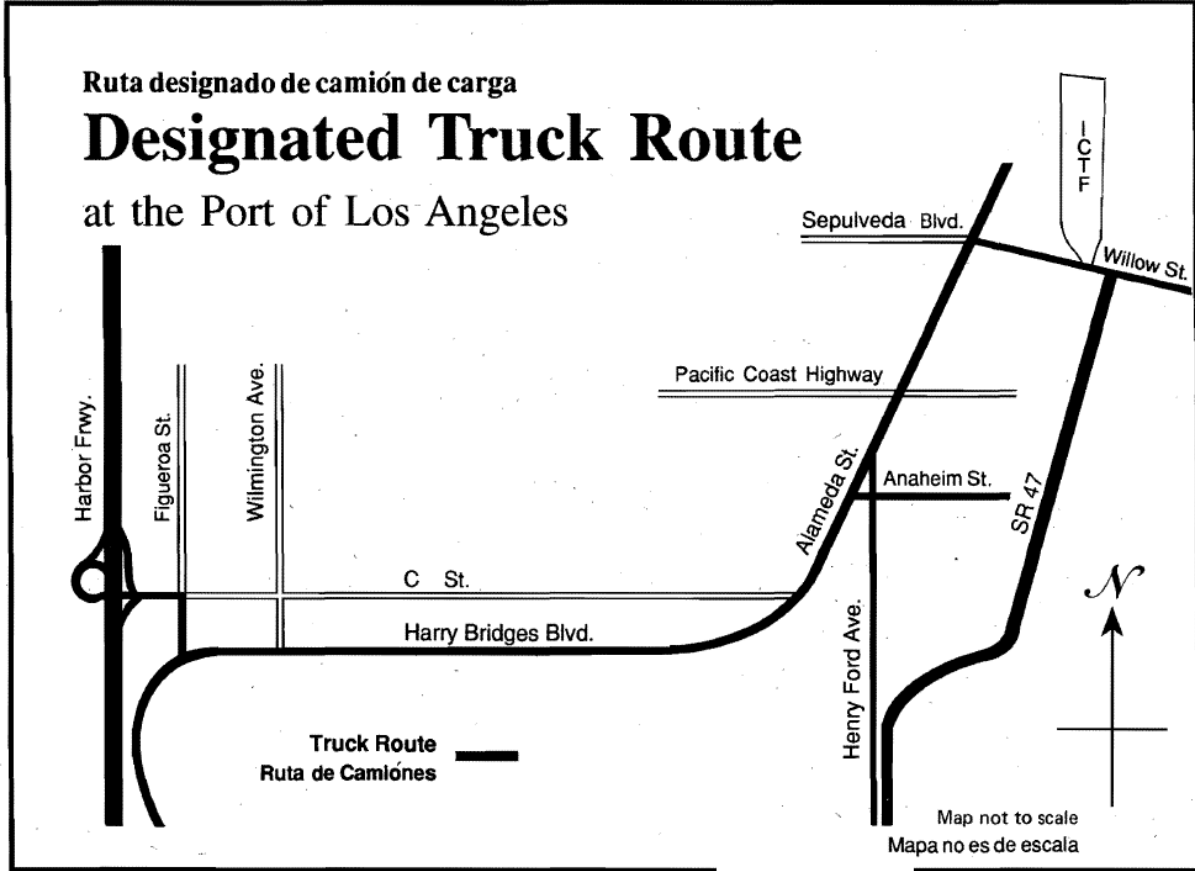
regulations; and type, quality, condition and function utility or limitations of land and/or improvements. The appraiser shall also consider general real estate market conditions and trends in the surrounding area.

#### Reconciliation

The Appraisal Report shall reconcile the results of all approaches employed and provide an analysis that results in a final conclusion of the market value and market rent for the each interest or property classification. The reconciliation will state the effective dates of value, the interests appraised and the properties appraised.

# EXHIBIT E – WILMINGTON TRUCK ROUTE

TRUCKS ENTERING AND LEAVING THE PORT MUST USE THE ROUTE SHOWN BELOW.  
CAMIONES ENTRANDO Y SALIENDO EL PORTO DEVEN DE USAR LA RUTA INDICADO ABAJO.



## **EXHIBIT F-1 – CITY BASELINE REPORT**

(PLEASE SEE ATTACHED)

## **EXHIBIT F-2 – TENANT BASELINE REPORT**

NONE

## **EXHIBIT G – LIST OF ENVIRONMENTAL REGULATED MATERIALS**

- Wheel Bearing Grease
- Brake Cleaner
- Spray Paint

## EXHIBIT H – PORT ENVIRONMENTAL POLICIES

### APPLICABLE ENVIRONMENTAL POLICIES, RULES AND DIRECTIVES OF CITY'S HARBOR DEPARTMENT

1. Port of Los Angeles Environmental Management Policy, as amended, or its successor policy. Available at: [http://www.portofla.org/img/Env\\_Mgmt\\_Policy.gif](http://www.portofla.org/img/Env_Mgmt_Policy.gif)
2. [San Pedro Bay Ports Clean Air Action Plan](http://www.cleanairactionplan.org), as amended, or its successor plan/document. Available at: <http://www.cleanairactionplan.org>.
3. Port of Los Angeles and Port of Long Beach Water Resources Action Plan or its successor plan/document. Available at [http://www.portoflosangeles.org/DOC/WRAP\\_Final.pdf](http://www.portoflosangeles.org/DOC/WRAP_Final.pdf)
4. Port of Los Angeles Green Building Policy (2007), as amended, or its successor policy.
5. Port of Los Angeles Sustainable Construction Guidelines (2008), as amended, or its successor document.
6. Resolution No. 5317 – Policy for Operation of Hazardous Waste Transfer, Storage and Disposal (TSD) Facilities on Harbor Department Property and any amendments or successor resolution.

Tenant acknowledges that City has provided copies or made copies available via the Port's website, of the above policies to the Tenant.



## **EXHIBIT I – ENVIRONMENTAL COMPLIANCE REQUIREMENTS**

### **Cleanest Available Cargo Handling Equipment.**

Tenant shall notify City prior to purchase of new cargo handling equipment. Tenant shall replace cargo handling equipment with the cleanest available equipment anytime new or replacement equipment is purchased, with a first preference for zero-admission equipment, a second preference for near-zero equipment, and third for the cleanest available if zero or near-zero equipment is not feasible, provided that the City shall conduct engineering assessments to confirm that such equipment is capable of installation at the facility. Starting one year after the effective date of a new entitlement between the Tenant and City, Tenant shall submit to the City an equipment inventory and 5-year procurement plan for new cargo-handling equipment, and infrastructure, and will update the procurement plan annually in order to assist with planning for transition of equipment to zero emissions.

## **EXHIBIT J – CITY MAINTENANCE RESPONSIBILITIES**

NONE



## EXHIBIT K-INSURANCE ASSESSMENT REQUEST FORM

Send completed form in Word format to [polariskmgmt@portla.org](mailto:polariskmgmt@portla.org) for processing.  
Please allow up to 10 business days for completed IAR to be returned. For status inquiries, contact Risk Management at 310-732-3758.

### This section to be completed by Risk Management

<input type="checkbox"/> No insurance required, only indemnification <input type="checkbox"/> Amendment does not require change to existing contract's insurance requirements	
INSURANCE REQUIREMENTS	LIMITS (Per Occurrence)
<input checked="" type="checkbox"/> General Liability <input type="checkbox"/> Deletion of railroad exclusion <input type="checkbox"/> Terminal Operator's Liability <input type="checkbox"/> Garage keepers Legal Liability <input type="checkbox"/> Host Liquor Liability <input type="checkbox"/> Explosion, collapse and underground hazards <input checked="" type="checkbox"/> Fire Legal Liability (Limits \$250K per occ)	\$1M
<input checked="" type="checkbox"/> Auto Liability (all autos) <input type="checkbox"/> On Hook Coverage	\$1M
<input checked="" type="checkbox"/> Workers' Compensation/Employer's Liability <input type="checkbox"/> USL&H <input checked="" type="checkbox"/> Waiver of Subrogation	STATUTORY
<input type="checkbox"/> Professional Liability <input type="checkbox"/> Medical Malpractice <input type="checkbox"/> Law Enforcement Legal Liability <input type="checkbox"/> Technology Errors & Omissions (E&O)	\$
<input type="checkbox"/> Railroad Protective Liability naming Pacific Harbor Line as the named insured	\$
<input type="checkbox"/> Ocean Marine Liability <input type="checkbox"/> Protective & Indemnity <input type="checkbox"/> Jones Act <input type="checkbox"/> Hull & Machinery <input type="checkbox"/> Ship Builders/Repairers Liability	\$
<input checked="" type="checkbox"/> Property/All Risk Insurance	100% replacement value over \$250K
<input type="checkbox"/> Environmental Impairment Liability	\$
<input type="checkbox"/> Builder's Risk (Reference Specification for exclusions)	Value of the project
<input type="checkbox"/> Fine Arts Insurance	Actual cash value
<input type="checkbox"/> Aviation/Airport Liability <input type="checkbox"/> Aircraft Liability (passenger liability per seat) <input type="checkbox"/> Unmanned Aircraft Systems Liability	\$

Date Reviewed: 8/20/2020

By: Marie Gutierrez for:  
Risk Manager

RM Staff:GT

S:\ASSESS\CIRE - Innovative Terminal at New Dock .docx

## **EXHIBIT L – LOS ANGELES ADMINISTRATIVE CODE: AFFIRMATIVE ACTION**

(These provisions are attached for Tenant reference only)

### **Sec. 10.8.4 Affirmative Action Program Provisions.**

Every non-construction contract with or on behalf of the City of Los Angeles for which the consideration is \$100,000 or more and every construction contract with or on behalf of the City of Los Angeles for which the consideration is \$5,000 or more shall contain the following provisions which shall be designated as the AFFIRMATIVE ACTION PROGRAM provisions of such contract:

- A. During the performance of a City contract, the contractor certifies and represents that the contractor and each subcontractor hereunder will adhere to an affirmative action program to ensure that in its employment practices, persons are employed and employees are treated equally and without regard to or because of race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status or medical condition.
  - 1. This provision applies to work or services performed or materials manufactured or assembled in the United States.
  - 2. Nothing in this section shall require or prohibit the establishment of new classifications of employees in any given craft, work or service category.
  - 3. The contractor shall post a copy of Paragraph A hereof in conspicuous places at its place of business available to employees and applicants for employment.
- B. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to their race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status or medical condition.
- C. As part of the City's supplier registration process, and/or at the request of the awarding authority or the Office of Contract Compliance, the contractor shall certify on an electronic or hard copy form to be supplied, that the contractor has not discriminated in the performance of City contracts against any employee or applicant for employment on the basis or because of race, religion, ancestry, national origin, sex, sexual orientation, age, disability, marital status or medical condition.

- D. The contractor shall permit access to and may be required to provide certified copies of all of its records pertaining to employment and to its employment practices by the awarding authority or the Office of Contract Compliance, for the purpose of investigation to ascertain compliance with the Affirmative Action Program provisions of City contracts, and on their or either of their request to provide evidence that it has or will comply therewith.
- E. The failure of any contractor to comply with the Affirmative Action Program provisions of City contracts may be deemed to be a material breach of contract. Such failure shall only be established upon a finding to that effect by the awarding authority, on the basis of its own investigation or that of the Board of Public Works, Office of Contract Compliance. No such finding shall be made except upon a full and fair hearing after notice and an opportunity to be heard has been given to the contractor.
- F. Upon a finding duly made that the contractor has breached the Affirmative Action Program provisions of a City contract, the contract may be forthwith cancelled, terminated or suspended, in whole or in part, by the awarding authority, and all monies due or to become due hereunder may be forwarded to and retained by the City of Los Angeles. In addition thereto, such breach may be the basis for a determination by the awarding authority or the Board of Public Works that the said contractor is an irresponsible bidder or proposer pursuant to the provisions of Section 371 of the Los Angeles City Charter. In the event of such determination, such contractor shall be disqualified from being awarded a contract with the City of Los Angeles for a period of two years, or until he or she shall establish and carry out a program in conformance with the provisions hereof.
- G. In the event of a finding by the Fair Employment and Housing Commission of the State of California, or the Board of Public Works of the City of Los Angeles, or any court of competent jurisdiction, that the contractor has been guilty of a willful violation of the California Fair Employment and Housing Act, or the Affirmative Action Program provisions of a City contract, there may be deducted from the amount payable to the contractor by the City of Los Angeles under the contract, a penalty of TEN DOLLARS (\$10.00) for each person for each calendar day on which such person was discriminated against in violation of the provisions of a City contract.

- H. Notwithstanding any other provisions of a City contract, the City of Los Angeles shall have any and all other remedies at law or in equity for any breach hereof.
- I. The Public Works Board of Commissioners shall promulgate rules and regulations through the Office of Contract Compliance and provide to the awarding authorities electronic and hard copy forms for the implementation of the Affirmative Action Program provisions of City contracts, and rules and regulations and forms shall, so far as practicable, be similar to those adopted in applicable Federal Executive Orders. No other rules, regulations or forms may be used by an awarding authority of the City to accomplish this contract compliance program.
- J. Nothing contained in City contracts shall be construed in any manner so as to require or permit any act which is prohibited by law.
- K. The contractor shall submit an Affirmative Action Plan which shall meet the requirements of this chapter at the time it submits its bid or proposal or at the time it registers to do business with the City. The plan shall be subject to approval by the Office of Contract Compliance prior to award of the contract. The awarding authority may also require contractors and suppliers to take part in a pre-registration, pre-bid, pre-proposal, or pre-award conference in order to develop, improve or implement a qualifying Affirmative Action Plan. Affirmative Action Programs developed pursuant to this section shall be effective for a period of twelve months from the date of approval by the Office of Contract Compliance. In case of prior submission of a plan, the contractor may submit documentation that it has an Affirmative Action Plan approved by the Office of Contract Compliance within the previous twelve months. If the approval is 30 days or less from expiration, the contractor must submit a new Plan to the Office of Contract Compliance and that Plan must be approved before the contract is awarded.
  - (1) Every contract of \$5,000 or more which may provide construction, demolition, renovation, conservation or major maintenance of any kind shall in addition comply with the requirements of Section 10.13 of the Los Angeles Administrative Code.
  - (2) A contractor may establish and adopt as its own Affirmative Action Plan, by affixing his or her signature thereto, an Affirmative Action

Plan prepared and furnished by the Office of Contract Compliance, or it may prepare and submit its own Plan for approval.

- L. The Office of Contract Compliance shall annually supply the awarding authorities of the City with a list of contractors and suppliers who have developed Affirmative Action Programs. For each contractor and supplier the Office of Contract Compliance shall state the date the approval expires. The Office of Contract Compliance shall not withdraw its approval for any Affirmative Action Plan or change the Affirmative Action Plan after the date of contract award for the entire contract term without the mutual agreement of the awarding authority and the contractor.
  
- M. The Affirmative Action Plan required to be submitted hereunder and the pre-registration, pre-bid, pre-proposal or pre-award conference which may be required by the Board of Public Works, Office of Contract Compliance or the awarding authority shall, without limitation as to the subject or nature of employment activity, be concerned with such employment practices as:
  - 1. Apprenticeship where approved programs are functioning, and other on-the-job training for non-apprenticeable occupations;
  - 2. Classroom preparation for the job when not apprenticeable;
  - 3. Pre-apprenticeship education and preparation;
  - 4. Upgrading training and opportunities;
  - 5. Encouraging the use of contractors, subcontractors and suppliers of all racial and ethnic groups, provided, however, that any contract subject to this ordinance shall require the contractor, subcontractor or supplier to provide not less than the prevailing wage, working conditions and practices generally observed in private industries in the contractor's, subcontractor's or supplier's geographical area for such work;
  - 6. The entry of qualified women, minority and all other journeymen into the industry; and
  - 7. The provision of needed supplies or job conditions to permit persons with disabilities to be employed, and minimize the impact of any disability.

- N. Any adjustments which may be made in the contractor's or supplier's work force to achieve the requirements of the City's Affirmative Action Contract Compliance Program in purchasing and construction shall be accomplished by either an increase in the size of the work force or replacement of those employees who leave the work force by reason of resignation, retirement or death and not by termination, layoff, demotion or change in grade.
- O. Affirmative Action Agreements resulting from the proposed Affirmative Action Plan or the pre-registration, pre-bid, pre-proposal or pre-award conferences shall not be confidential and may be publicized by the contractor at his or her discretion. Approved Affirmative Action Agreements become the property of the City and may be used at the discretion of the City in its Contract Compliance Affirmative Action Program.
- P. This ordinance shall not confer upon the City of Los Angeles or any Agency, Board or Commission thereof any power not otherwise provided by law to determine the legality of any existing collective bargaining agreement and shall have application only to discriminatory employment practices by contractors or suppliers engaged in the performance of City contracts.
- Q. All contractors subject to the provisions of this section shall include a like provision in all subcontracts awarded for work to be performed under the contract with the City and shall impose the same obligations, including but not limited to filing and reporting obligations, on the subcontractors as are applicable to the contractor. Failure of the contractor to comply with this requirement or to obtain the compliance of its subcontractors with all such obligations shall subject the contractor to the imposition of any and all sanctions allowed by law, including but not limited to termination of the contractor's contract with the City.





# **Baseline Soil and Groundwater Investigation**

Port of Los Angeles – New Dock Parcel  
San Pedro, California  
Project CM20167740

Prepared for:

**Los Angeles Harbor Department Environmental Management  
Division**

San Pedro, California

8/28/2020

TRANSMITTAL 2  
EXHIBIT F-1



**Baseline Soil and Groundwater Investigation**

Port of Los Angeles – New Dock Parcel  
San Pedro, California

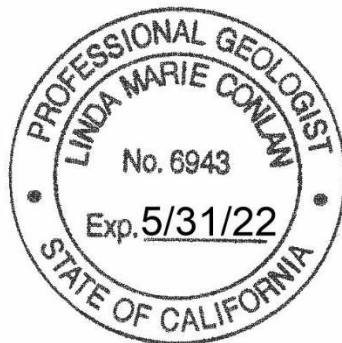
8/28/2020  
Project CM20167740

This report was prepared by the staff of Wood Environment & Infrastructure Solutions, Inc. under the supervision of the Geologists whose signatures appear hereon.

The findings, recommendations, specifications, or professional opinions are presented within the limits described by the client, in accordance with generally accepted professional engineering and geologic practice. No warranty is expressed or implied.

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Jorge Perez, PG 9682  
Technical Professional 3 - Geologist



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Linda Conlan, PG 6943  
Principal Geologist



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## List of Acronyms

ATL	Advanced Technology Laboratories, Inc.
bgs	below ground surface
DTSC	California Department of Toxic Substance Control
EMD	Environmental Management Division
ESL	Environmental Screening Levels
Innovative	Innovative Terminal Services, Inc.
J	Indicates that the result is an estimated concentration; the associated numerical value is the approximate concentration of the analyte in the sample
J-	Indicates that the result is an estimated quantity but may be biased low
J+	Indicates that the result is an estimated quantity but may be biased high
MCL	maximum contaminant level
µg/L	micrograms per liter
µg/kg	micrograms per kilogram
LAHD	Los Angeles Harbor Department
metals	Title 22 metals
mg/L	milligrams per liter
mg/kg	milligrams per kilograms
PAHs	polynuclear aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PID	photoionization detector
PPM	parts per million
PVC	polyvinyl chloride
QA/QC	quality assurance/ quality control
RL	laboratory reporting limit
RSL	Regional Screening Levels
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
SIM	selected ion monitoring
STLC	soluble threshold limit concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	total petroleum hydrocarbons
TTL	Total Threshold Limit Concentration
TPHd	diesel range organics
TPHg	gasoline range organics
TPHo	oil range organics
U	Indicates that the analyte was not detected at or above the level of the reported sample quantitation limit.

### List of Acronyms, Continued

UJ	Indicates that the analyte was not detected at or above the laboratory reporting limit; the reported quantitation limit is approximate and may be inaccurate or imprecise
US EPA	United States Environmental Protection Agency
VOCs	volatile organic compounds
Wood	Wood Environment & Infrastructure Solutions, Inc.

## 1.0 Introduction

On behalf of the Los Angeles Harbor Department (LAHD) Environmental Management Division (EMD), Wood Environment & Infrastructure Solutions, Inc. (Wood) conducted a baseline investigation of a 10-acre site currently occupied by Innovative Terminal Services, Inc. (Innovative) and an adjacent 5-acre expansion area currently used by Pasha Stevedoring & Terminal L.P. In total, these 15-acres make-up the New Dock property (**Figure 1**; the site). According to EMD, no previous environmental investigation has been conducted on the site.

The site is northwest of New Dock Street within Terminal Island, California, in the County of Los Angeles. Terminal Island is owned by the LAHD and the site is leased to the current tenants noted above.

## 2.0 Background

There have been no previous environmental investigations at the site.

According to a 1969 topographic map<sup>1</sup>, two buildings were located in the southwestern portion of the site (**Figure 2**). Rail lines were also observed in the vicinity of the two buildings on the topographic map. The operations associated with the buildings are not known, and the buildings and rail lines are no longer present. In addition, at least four unexposed plugged and abandoned oil and gas wells<sup>2</sup> are located at the site and a plugged injector well is located near the southeastern border of the site. The approximate locations of these wells are shown on **Figure 2**.

## 3.0 Field Implementation

The following sections present the objective of the baseline investigation and the implementation methods and activities to achieve the objective.

### 3.1 Objective

The primary objective of this work was to conduct a baseline investigation of the site. Because sampling was not previously conducted, sample locations were chosen by placing a 300-foot grid across the 15-acre site (**Figure 2**) with sample locations selected for spatial coverage across the site and to target specific features described in Section 2 and as shown on **Figure 2**. As shown on **Figure 2**, the sample locations are identified as "ND" followed by a location number 1 through 16 (e.g. ND-1).

### 3.2 Scope of Work

To achieve the objective, the scope of work included the following:

- Advancement of 16 soil borings to depths ranging from approximately 5 to 16 feet below ground surface (bgs) using hand auger and/or direct-push drilling methods.
- Collection and analysis of the soil samples at depths of approximately 2 to 3.5 and 5 to 6.5 feet bgs [Note: Sample depths were adjusted to account for the thickness of the surface cover material].
- Collection of grab groundwater samples from five of the 16 soil borings using a temporary well and a disposable bailer.

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<sup>1</sup> 1964 USGS 7.5 Minute Topographic Map, Long Beach Quadrangle

<sup>2</sup> <https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx>

Boring locations are shown on **Figure 2**. Several of the boring locations were adjusted in the field to accommodate ongoing site activities. Adjusted boring locations were discussed with the LAHD EMD project manager before drilling activities commenced.

The following subsections describe the activities conducted to complete the scope of work.

### 3.3 Pre-field Activities

Prior to initiating subsurface field work for soil and groundwater sampling, Wood:

- obtained a permit from the Los Angeles County of Public Health for the advancement of five soil borings to collect groundwater samples (a copy of the permit is included in **Appendix A**);
- coordinated with the LAHD EMD project manager and tenants for access and provided the planned field work schedule;
- coordinated with Pasha Stevedoring & Terminal L.P. for access to the 5-acre expansion area. Transportation Worker Identification Credentials were required for this area;
- prepared and reviewed a site-specific health and safety plan;
- notified Underground Service Alert of planned field activities;
- conducted site walks with the tenants and marked the planned boring locations [Note: during the site walks, adjustments were made to some of the boring locations to accommodate site activities, while still retaining the spatial coverage across the site];
- retained Subsurface Surveys & Associates, Inc., of Carlsbad, California, a private utility locator, to screen the planned boring locations for potential underground utilities or buried objects;
- retained InterPhase Environmental, Inc., of Los Angeles, California, to provide services for surface coring, hand augering, direct-push drilling, and soil and groundwater sampling; and
- retained Belshire of Foothill Ranch, California, for disposal of investigation-derived waste.

### 3.4 Soil Sampling

The sampling activities were conducted on June 25 through 26, 2020, and a total of 16 borings were advanced to a maximum depth of 5 to 16 feet bgs. Borings were completed by hand using a hand auger to collect soil samples. After hand augering, five of the 16 borings (borings ND-3, ND-4, ND-6, ND-15, and ND-16) were advanced to depths between 15 to 16 feet bgs using direct-push methods to facilitate the collection of groundwater samples. Groundwater was encountered in the soil borings at depths between 7.5 and 13.0 feet bgs.

Lithology encountered in each boring was described by a Wood geologist licensed as a Professional Geologist in the State of California using visual-manual procedures outline in ASTM International Standard D2488, which are based on the Unified Soil Classification System. Soil was also screened in the field for the potential presence of volatile organic compounds (VOCs) using a photoionization detector (PID) calibrated to 100 parts per million (ppm) isobutylene standard. Color, moisture content, grain size, PID readings, and other pertinent soil characteristics were recorded on the boring logs provided in **Appendix B**.

Within the hand augered interval at each boring, shallow and deep soil samples were collected for laboratory analysis at depths ranging from 2 to 3.5 and 5 to 6.5 feet bgs using a slide-hammer lined with a 2-inch-diameter stainless steel sleeve. [Note: at some boring locations, the shallow sample depths were adjusted to account for the thickness of the surface material]. From the direct-push interval, soil was

cored continuously using a dual-casing sampling system, and soil was observed by cutting the acetate liner for soil logging purposes. Soil samples for VOC analysis were collected as sub-samples from the stainless-steel sleeve following United States Environmental Protection Agency (US EPA) Method 5035 protocols for field preservation.

In general, the surface cover, consisting of asphalt and gravel base, ranged from 1.5 to 2.5 feet thick at the boring locations. Soil at the site is mostly composed of silty sand, with varying amounts of sandy silts, poorly graded sands, clays and silts.

Downhole drilling and sampling equipment were cleaned using an Alconox–water solution and rinsed twice with deionized water prior to each use at each boring and before sampling. Once total depth was reached, each boring was destroyed by backfilling with hydrated bentonite for the shallow hand auger borings and a cement–bentonite grout for the borings extending to groundwater. The backfill material was placed through a tremie pipe. The surface was restored to match surrounding surface conditions.

Borings were located using a handheld GPS-TrimbleGeoXH 6000 (latitude and longitude). The final GPS boring location coordinates will be provided separately.

### 3.5 Groundwater Sampling

Grab groundwater samples were collected at five of the 16 boring locations using direct-push drilling methods. Once total depth was reached, a temporary 0.5-inch polyvinyl chloride (PVC) casing with a 5-foot screen was inserted into the drill casing. After the temporary PVC casing and screen were inserted, the drill casing was retracted 5 feet exposing the screen to the saturated soil. Groundwater levels were collected using a clean, electric water level sounder to verify the presence of groundwater as measured from ground surface. Depth to groundwater ranged from 4.80 to 13.05 feet bgs. Grab groundwater samples were collected using a disposable bailer and then transferred to laboratory supplied containers. The containers were labeled and placed in resealable plastic bags in an ice-chilled cooler containing a laboratory supplied trip blank.

### 3.6 Laboratory Analysis

Soil and groundwater samples were analyzed by Advanced Technology Laboratories (ATL). ATL is certified by the California State Water Resources Control Board Environmental Laboratory Accreditation Program. Samples were submitted to ATL using chain-of-custody procedures.

Soil samples were analyzed for the following analytes:

- Total petroleum hydrocarbons (TPH) using US EPA Method 8015B (M),
- VOCs using US EPA Method 8260B, and
- Title 22 metals (metals) using US EPA Methods 6010B and 7471A/7470A,

A subset of the soil samples was analyzed for polycyclic aromatic hydrocarbons (PAHs) by US EPA Method 8270 selected ion monitoring (SIM) and polychlorinated biphenyls (PCBs) by US EPA Method 8082. Soil samples were selected for PAH analyses based on the TPH and metals analytical results and for spatial distribution across the site. Soil samples were selected for PCB analyses based on proximity of the former rail lines and/or structures that are no longer present as described in Section 2.

In the case where an individual metal concentration exceeded 10 times the Soluble Threshold Limit Concentration (STLC), additional analysis was conducted for the exceedance for STLC Metals by US EPA 6010B.



Groundwater samples were analyzed for the following analytes:

- TPH using US EPA Method 8015B (M),
- VOCs using US EPA Method 8260B, and
- Metals using US EPA Methods 6010B and 7471A/7470A.

A daily laboratory-supplied trip blank sample, one groundwater duplicate sample and one equipment blank sample were collected for quality assurance/quality control (QA/QC) purposes during this investigation. The equipment blank sample was collected by pouring deionized water onto the soil sampler (slide-hammer shoe; after cleaning) and collecting the water in containers provided by the laboratory. The QA/QC samples were submitted to ATL and analyzed for VOCs using US EPA Method 8260B. Additionally, the duplicate sample and the equipment blank sample were analyzed for TPH using US EPA Methods 8015B (M) and Title 22 metals using US EPA Methods 6010B and 7471A/7470A. The QA/QC sample results are included with the laboratory reports in **Appendix C**.

Laboratory analytical reports and chain-of-custody records are provided in **Appendix C**. The analytical results are summarized in **Tables 1 through 4**.

### 3.7 Investigation-Derived Waste Management

Investigation-derived solid (soil cuttings) and liquid (equipment rinse water) wastes were contained separately in 55-gallon steel drums approved by the US Department of Transportation. The drums were labeled and temporarily stored at a designated on-site location pending subsequent characterization and disposal. Soil waste generated during the investigation is currently pending analysis. Once the soil has been characterized, Belshire will transport the soil and liquid waste off-site to a LAHD-approved waste disposal facility. Manifest will be provided separately when disposal has been completed.

## 4.0 Quality Assurance/Quality Control Results

A summary of field and laboratory QA/QC samples collected and analyzed during this field program and the results of the QA/QC data review is provided in **Appendix D**. Additional QA/QC information is included in the laboratory reports (**Appendix C**). The results of the quality review indicate that the data are valid and acceptable for the evaluation of baseline conditions.

## 5.0 Summary of Results

This section summarizes the analytical results for soil and grab groundwater samples collected during this investigation, along with a comparison of the results to applicable screening levels described in Section 5.1.

### 5.1 Screening Levels

Soil and groundwater sample analytical results were compared to the following screening levels:

#### Soil

- US EPA, 2020, Industrial Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, May. In addition:
  - Metals were also compared to the Total Threshold Limit Concentrations (TTLC), 10 times the STLC and 20 times the Toxic Characteristic Leaching Procedure levels.

- TPH was compared to the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), 2019, Environmental Screening Levels (ESL) User's Guide, San Francisco Bay Regional Water Quality Control Board, Direct Exposure Human Health Risk Levels. ESLs for TPH are the lowest level between Commercial/Industrial cancer risk and non-cancer hazard levels.

#### Groundwater

- SFBRWQCB, 2019, ESL User's Guide, San Francisco Bay Regional Water Quality Control Board, Groundwater, Direct Exposure Human Health Risk Levels, Lowest Screening Level Applied (Maximum Contaminant Level [MCL] Priority). In the absence of an MCL, the screening levels for TPH as gasoline (TPHg) and diesel (TPHd) and three metals (cobalt, molybdenum, and vanadium) are based on a non-cancer tap water direct exposure levels.

Analytical results and their applicable screening levels for soil and grab groundwater samples are summarized in **Tables 1 through 4**. Boring locations are shown on **Figure 2**.

## 5.2 Soil Results

This section summarizes the soil results for samples collected.

#### TPH Concentrations

A total of 32 soil samples collected from 16 borings were analyzed for TPH. The results of these analyses are presented in **Table 1**, and key findings are summarized below.

- TPH as gasoline (TPHg, C6-C12) was not detected at or above the reporting limit in any of the 32 soil samples.
- TPH as diesel (TPHd, C13-C22) was detected in 14 soil samples at concentrations ranging from 1.3 to 264 milligram per kilogram (mg/kg). None of the detected TPHd concentrations in the soil samples exceeded the SFBRWQCB commercial/industrial ESL.
- TPH as motor oil (TPHo, C23-C44) was detected in all 32 soil samples at concentrations ranging from 4.0 to 6,960 mg/kg. None of the detected TPHo concentrations in the soil samples exceeded the SFBRWQCB commercial/industrial ESL.

#### VOC Concentrations

A total of 32 soil samples collected from 16 borings were analyzed for VOCs. The results of these analyses are presented in **Table 1**, and key findings are summarized below.

- Carbon disulfide was detected in one soil sample at a concentration of 8.6 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ). The detected VOC concentration did not exceed the respective US EPA Industrial RSL.

#### PAH Concentrations

A total of eight soil samples collected from eight borings were analyzed for PAHs. The results of these analyses are presented in **Table 1**, and key findings are summarized below.

- Phenanthrene was detected in one soil sample at a concentration of  $450 \text{ J}^{-3} \mu\text{g}/\text{kg}$ . There is no US EPA Industrial RSL for this compound.

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<sup>3</sup> J- indicates that the result is an estimated quantity but may be biased low.

### PCB Concentrations

A total of 8 soil samples collected from 8 borings were analyzed for PCBs. The results of these analyses are presented in **Table 1**, and key findings are summarized below.

- Aroclor 1254 was detected in one soil sample at a concentration of 16 µg/kg. The detected PCB concentration did not exceed the respective US EPA Industrial RSL.

### Metal Concentrations

A total of 32 soil samples collected from 16 borings were analyzed for Title 22 metals. The results of these analyses are presented in **Table 2**, and key findings are summarized below.

- Twelve metals (arsenic, barium, chromium, cobalt, copper, lead, molybdenum, mercury, nickel, selenium, vanadium, and zinc) were detected in the soil samples at concentrations ranging from 0.11 (mercury) to 170 mg/kg (barium).

Two of the metal concentrations exceeded a screening level and/or waste limit for one or more samples as summarized below.

- Arsenic was detected in 29 soil samples at concentrations ranging from 1.1 to 6.1 mg/kg. 20 of the 29 detected arsenic concentrations exceeded the US EPA Industrial RSL of 3 mg/kg. These samples included ND-1-5.5, ND-2-5.5, ND-4-2.5, ND-4-5, ND-5-2.5, ND-5-5, ND-6-5.5, ND-7-2.5, ND-7-5.5, ND-8-3, ND-8-6, ND-9-2.5, ND-10-2, ND-10-5.5, ND-11-5.5, ND-12-3, ND-12-6, ND-13-6.5, ND-14-2.5, and ND-14-5.5. None of the arsenic exceedances were above the naturally occurring background level of 12 mg/kg established in Southern California (Chernoff et al., 2008; Department of Toxic Substances Control [DTSC], 2009).
- Lead was detected in all 32 soil samples at concentrations ranging from 2.8 to 100 mg/kg. One of the 32 detected lead concentrations exceeded a waste limit. The detected lead concentration at ND-10 (100 mg/kg) at 2.0 feet exceeded 10 times the STLC (50 mg/kg). Based on the waste limit exceedance, this sample was analyzed for extractable lead by STLC methods. The extractable lead concentration was reported at 6.2 milligrams per liter (mg/L) by STLC methods, which is above the STLC (5 mg/L).

## 5.3 Groundwater Results

This section summarizes the results of the five grab groundwater samples collected from borings ND-3, ND-4, ND-6, ND-15, and ND-16 (**Figure 2**).

### TPH Concentrations

The grab groundwater samples were analyzed for TPH. The results of these analyses are presented in **Table 3**, and key findings are summarized below.

- TPH as gasoline (TPHg, C6-C12) was not detected at or above the reporting limit in any of the grab groundwater samples.
- TPH as diesel (TPHd, C13-C22) was detected in four of the five grab groundwater samples at concentrations ranging from 0.06 J<sup>4</sup> to 0.19 mg/L. The TPHd concentrations did not exceed the SFBRWQCB ESL for any of the detected results.

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<sup>4</sup>J indicates that the result is an estimated concentration; the associated numerical value is the approximate concentration of the analyte in the sample.

- TPH as motor oil (TPHo, C23-C44) was detected in all of the grab groundwater samples at concentrations ranging from 0.15 to 0.66 mg/L. There is no SFBRWQCB ESL for TPHo.

#### VOC Concentrations

The grab groundwater samples were analyzed for VOCs. The results of these analyses are presented in **Table 3**, and key findings are summarized below.

- MTBE was detected above the reporting limit in one of the five grab groundwater samples at a concentration of 1.1 micrograms per liter ( $\mu\text{g/L}$ ). The MTBE concentration did not exceed the SFBRWQCB ESL.
- Tert-butanol was detected above the reporting limit in three of the five groundwater samples at concentrations of 11, 11, and 27  $\mu\text{g/L}$ . One tert-butanol concentration (27  $\mu\text{g/L}$ ; sample ND-16-16) exceeded the SFBRWQCB ESL (12  $\mu\text{g/L}$ ).

#### Metal Concentrations

The grab groundwater samples were analyzed for total Title 22 metals. The results of these analyses are presented in **Table 4**, and key findings are summarized below.

- A total of 14 metals were detected above the reporting limits in one or more of the grab groundwater samples at concentrations ranging from 0.00032 (mercury) to 8.4 mg/L (barium). Of these samples, the concentrations of 10 metals exceeded the SFBRWQCB ESLs as summarized below. It should be noted that the ESLs are based on direct human health exposure, using the lowest screening level, which are MCLs or tap water exposure levels.
  - Arsenic, barium, beryllium, chromium, cobalt, lead, nickel, and vanadium exceeded SFBRWQCB ESLs in all five grab groundwater samples.
  - Copper and molybdenum exceeded SFBRWQCB ESLs in three to four of the five grab groundwater samples.

## 6.0 Findings and Conclusions

A summary of the findings and conclusions derived from the results of this baseline soil and groundwater investigation are provided below.

#### Soil

- Soil at the site is mostly composed of silty sand, with varying amounts of sandy silts, poorly graded sands, clays, and silts.
- TPH in the diesel and motor oil ranges, a VOC (carbon disulfide), a PAH (phenanthrene), a PCB (Aroclor 1254), and metals were detected in one or more soil samples at the site. With the exception of arsenic and lead, none of the detected concentrations were above a screening level as described in Section 5.1. For arsenic and lead:
  - Arsenic concentrations in soil exceeded US EPA Industrial RSL at 13 boring locations (included ND-1, ND-2, ND-4, ND-5, ND-6, ND-7, ND-8, ND-9, ND-10, ND-11, ND-12, ND-13, and ND-14). All the detected concentrations were below the naturally occurring background level of 12 mg/kg (Chernoff et al., 2008; DTSC, 2009).
  - Lead in one soil sample ND-10-2 exceeded 10 times the STLC waste limit, and the extractable concentration of lead is above the STLC (5 mg/L).

The site is currently paved, which limits potential exposure to soil containing these metals and other constituents. However, if soil removal is required in these areas for future site development, further evaluation of metals, and potentially other constituents, in soils would be needed due to the exceedance of lead above 10 times the STLC and the STLC.

#### Groundwater

- Groundwater was encountered in the soil borings across the site at depths between 7.5 and 13.0 feet bgs, with measured water levels ranging from 4.80 to 13.05 feet bgs.
- With the exception of MTBE and tert-butanol, VOCs were not detected in the grab groundwater samples at the site. Low concentrations of the TPH as diesel and motor oil were detected at several groundwater sample locations. Of these groundwater results, only tert-butanol was above the SFBRWQCB ESL at one location (ND-16).
- The total concentrations of 10 metals exceeded SFBRWQCB ESLs in at least three or more groundwater samples.

As discussed above, the ESLs are based on direct human health exposure for drinking water (MCLs) or tap water, and shallow groundwater beneath the site is not currently used for drinking water purposes. In addition, the site is currently paved which limits potential exposure to groundwater containing these constituents. However, if dewatering is required in these areas for future site development, further evaluation of these constituents would be needed for managing the extracted groundwater.

## **7.0 User Reliance and Limitations**

The Baseline Soil and Groundwater Investigation Report has been completed for the use of the LAHD EMD. No other person or organization shall rely upon any part of the report without the prior written consent of Wood. The LAHD EMD may not release parts of the report but may release the whole report to third parties; however, in doing so, LAHD EMD shall indemnify and defend Wood from and against all claims arising out of or in conjunction with such use or reliance by a third party. Additionally, any third party in using this report agrees that it shall have no legal recourse against Wood.

This Report is intended to provide Wood's interpretation of the data derived from samples collected for this project at specific locations and times at the site. The findings presented herein do not constitute a warranty, guarantee, or positive assertion as to the presence, absence, or extent of hazardous materials or contamination at the site.

## 8.0 References

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), 2019.

US Environmental Protection Agency (US EPA), Industrial Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, May 2020.



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**Tables**



Table 1

Summary of Analytical Results for Detected Volatile Organic Compounds (VOCs), Total Petroleum Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAHs), and Polychlorinated Biphenyls (PCBs) in Soil Samples

Baseline Investigation - New Dock Parcel

Port of Los Angeles

San Pedro, California

Boring ID	Sample ID	EPA Method 8260B/5035 (µg/kg)	EPA Method 8015B (mg/kg)				EPA Methods 8270C SIM (µg/kg)	EPA Methods 8082 (µg/kg)
		Carbon disulfide	TPH Gas	TPH Diesel	TPH Oil	Total TPH	Phenanthrene	Aroclor 1254
	Industrial Soil RSL <sup>1</sup>	3,500,000	---	---	---	---	NA	970
	SFBRWQCB for Commercial/Industrial Soil <sup>2</sup>	---	2,000	1,200	180,000	NA	---	---
ND-1	ND-1-2.5	<6.0	<1.0	<20	1,217	1217	--	--
	ND-1-5.5	<4.3	<1.0	<1.0	4.0	4.0	--	--
ND-2	ND-2-2.5	<3.7	<1.0	<10	496	496	--	--
	ND-2-5.5	<7.0	<1.0	130	403	533	--	--
ND-3	ND-3-2.5	<5.8	<1.0	<100	6,960	6,960	<25 UJ	--
	ND-3-5.5	<4.3	<1.0	6.3 J+	199.4 J+	205.7	--	--
ND-4	ND-4-2.5	<4.3	<1.0	264	1,072	1,336	450 J-	--
	ND-4-5	<5.6	<1.0	2.2	13.4	15.6	--	--
ND-5	ND-5-2.5	<3.9	<1.0	<50	2,259	2,259	--	<16
	ND-5-5	<5.4	<1.0	<2.0	138.4	138.4	--	--
ND-6	ND-6-2.5	<4.9	<1.0	<10	732.0	732.0	--	<16
	ND-6-5.5	<4.2	<1.0	<20	1,083	1,083	--	--
ND-7	ND-7-2.5	<5.5	<1.0	178	2,438	2,616	<100 UJ	<16
	ND-7-5.5	<4.7	<1.0	<20	1,301	1,301	--	--
ND-8	ND-8-3	<3.8	<1.0	<50	2,911	2,911	<5.0 UJ	<16
	ND-8-6	<4.1	<1.0	<1.0	14.6	14.6	--	--
ND-9	ND-9-2.5	<6.5	<1.0	<10	797	797	--	16
	ND-9-5.5	<4.1	<1.0	<5.0	325.2	325.2	--	<16
ND-10	ND-10-2	<3.9	<1.0	29.3	292	321.3	--	<16 UJ
	ND-10-5.5	<5.9	<1.0	<10	272	272	--	<16
ND-11	ND-11-2.5	<4.5	<1.0	1.3	37.1	38.4	--	--
	ND-11-5.5	<4.1	<1.0	<50	3,632	3,632	<5.0 UJ	--
ND-12	ND-12-3	8.6	<1.0	27.8 J+	178.6 J+	206.4	--	--
	ND-12-6	<8.8	<1.0	96	587	683	--	--
ND-13	ND-13-3.5	<4.2	<1.0	<50	3,215	3,215	<50 UJ	--
	ND-13-6.5	<4.5	<1.0	40.8	728	768.8	--	--
ND-14	ND-14-2.5	<4.4	<1.0	<5.0	418.7	418.7	--	--
	ND-14-5.5	<6.3	<1.0	11	1,088	1,099	--	--
ND-15	ND-15-2	<8.6	<1.0	<100	5,860	5,860	<250 UJ	--
	ND-15-6.5	<3.4	<1.0	3.1	41.3	44.4	--	--
ND-16	ND-16-2	<3.9	<1.0	6.6	244.3	250.9	<25 UJ	--
	ND-16-5	<4.9	<1.0	4.2	105.5	109.7	--	--

Notes

1. U.S. Environmental Protection Agency (EPA), 2020, Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, May, Industrial Levels (<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>).
2. San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), 2019, Environmental Screening Levels (ESL) User's Guide San Francisco Bay Regional Water Quality Control Board, Direct Exposure Human Health Risk Levels. ESL levels presented are the lowest level between Commercial/Industrial cancer risk and non-cancer hazard.
3. Samples collected between June 25 through June 26, 2020.
4. Sample depth is the last number in the sample ID (e.g. for ND-1-2.5, the sample depth is approximately 2.5 feet below ground surface).

Abbreviations

µg/kg = micrograms per kilogram  
 mg/kg = milligrams per kilogram  
 NA = RSL or SL not available  
 -- = Not Analyzed  
 RSL = Regional Screening Level  
 TPH Diesel = Carbon ranges C13 through C22  
 TPH Gas = Carbon ranges C6 through C12  
 TPH Oil = Carbon ranges C23 through C44  
 --- = screening level not applied  
 Total TPH = The sum of the TPH Gas, TPH Diesel and TPH Oil concentrations  
 < = Not detected at or above the laboratory reporting limit (RL) shown  
 UJ = the analyte was not detected at or above the laboratory RL shown or as an estimated non-detected value based on data review  
 J+ = The analyte was positively identified and the associated numerical value is estimated/biased high  
 J- = The analyte was positively identified and the associated numerical value is estimated/biased low  
 EPA = United States Environmental Protection Agency



**Table 2**

**Summary of Analytical Results for Detected Metals in Soil Samples**

Baseline Investigation - New Dock Parcel

Port of Los Angeles

San Pedro, California

Results shown in milligrams per kilogram (mg/kg)

Boring ID	Sample ID <sup>1,2</sup>	EPA Method 6010B											EPA Method 7471A/7470A
		Arsenic <sup>4</sup>	Barium	Chromium	Cobalt	Copper	Lead <sup>6</sup>	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Mercury
	Industrial Soil RSL <sup>3</sup>	3	220,000	1,800,000 <sup>5</sup>	350	47,000	800	5,800	22,000	5,800	5,800	350,000	350
	TCLP (mg/L)	5	100	5	NA	NA	5	NA	NA	1	NA	NA	0.2
	20 x TCLP (mg/kg equivalent)	100	2000	100	NA	NA	100	NA	NA	20	NA	NA	4
	STLC (mg/L)	5	100	5	80	25	5	350	20	1	24	250	0.2
	10 x STLC (mg/kg equivalent)	50	1000	50	800	250	50	3500	200	10	240	2500	2
	TTL	500	10,000	2,500	8,000	2,500	1,000	3,500	2,000	100	2,400	5000	20
ND-1	ND-1-2.5	1.1	50	12	3.4	5.9	5.2	<1.0	8.9	<1.0	19	23	<0.10
	ND-1-5.5	3.9	98	17	6.5	17	21	<1.0	14	<1.0	29	49	<0.10
ND-2	ND-2-2.5	2.8	89	16	5.4	15	19	1.1	13	<1.0	29	54	<0.10
	ND-2-5.5	3.3	100	19	5.9	22	23	1.1	14	<1.0	30	59	<0.10
ND-3	ND-3-2.5	1.9	78	15	5.3	15	18	<1.0	20	<1.0	27	41	<0.10
	ND-3-5.5	<1.0	83	16	4.8	14	23	<1.0	11	<1.0	28	39	<0.10
ND-4	ND-4-2.5	3.6	140	31	10	38	15	1.5	23	<1.0	51	79	<0.10
	ND-4-5	6.1	120	27	9.7	36	14	2.1	20	<1.0	44	73	<0.10
ND-5	ND-5-2.5	3.4	83	16	5.3	14	12	1.1	12	<1.0	28	48	<0.10
	ND-5-5	4.5	130	20	8.3	20	7.8	1.2	15	<1.0	37	62	<0.10
ND-6	ND-6-2.5	2.0	89	15	5.8	15	31	<1.0	12	<1.0	25	53	<0.10
	ND-6-5.5	3.1	86	14	5.2	21	22	1.1	16	<1.0	24	71	<0.10
ND-7	ND-7-2.5	3.1	76	16	4.8	14	23	1.4	13	<1.0	26	47	<0.10
	ND-7-5.5	3.1	100	25	5.6	31	34	1.4	16	<1.0	29	76	0.19
ND-8	ND-8-3	4.8	76	16	5.2	13	7.4	<1.0	13	<1.0	26	34	<0.10
	ND-8-6	3.3	94	17	6.8	16	12	1.0	14	<1.0	31	43	<0.10
ND-9	ND-9-2.5	4.1	63	12	4.8	12	11	<1.0	10	<1.0	22	36	<0.10
	ND-9-5.5	2.2	85	15	5.1	12	11	<1.0	11	<1.0	29	37	<0.10
ND-10	ND-10-2	4.1	170	18	5.1	20	100	1.5	13	<1.0	26	95	<0.10
	ND-10-5.5	3.5	94	18	5.2	14	23	1.0	13	1.5	29	50	<0.10
ND-11	ND-11-2.5	1.4	61	15	4.1	9.7	6.6	<1.0	9.9	<1.0	26	31	<0.10
	ND-11-5.5	3.4	97	20	7.0	21	8.2	<1.0	16	<1.0	35	41	<0.10

**Table 2**

**Summary of Analytical Results for Detected Metals in Soil Samples**

Baseline Investigation - New Dock Parcel

Port of Los Angeles

San Pedro, California

Results shown in milligrams per kilogram (mg/kg)

Boring ID	Sample ID <sup>1, 2</sup>	EPA Method 6010B											EPA Method 7471A/7470A
		Arsenic <sup>4</sup>	Barium	Chromium	Cobalt	Copper	Lead <sup>6</sup>	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Mercury
Industrial Soil RSL <sup>3</sup>		3	220,000	1,800,000 <sup>5</sup>	350	47,000	800	5,800	22,000	5,800	5,800	350,000	350
TCLP (mg/L)		5	100	5	NA	NA	5	NA	NA	1	NA	NA	0.2
20 x TCLP (mg/kg equivalent)		100	2000	100	NA	NA	100	NA	NA	20	NA	NA	4
STLC (mg/L)		5	100	5	80	25	5	350	20	1	24	250	0.2
10 x STLC (mg/kg equivalent)		50	1000	50	800	250	50	3500	200	10	240	2500	2
TTLC		500	10,000	2,500	8,000	2,500	1,000	3,500	2,000	100	2,400	5000	20
ND-12	ND-12-3	3.4	130	21	4.9	30	18	1.3	17	<1.0	32	61	0.14
	ND-12-6	3.5	150	21	4.7	27	19	2.4	17	<1.0	33	59	<0.10
ND-13	ND-13-3.5	1.7	140	16	5.0	23	22	1.3	13	<1.0	31	55	0.11
	ND-13-6.5	4.1	100	17	4.6	22	15	1.6	14	<1.0	29	64	<0.10
ND-14	ND-14-2.5	3.1	61	14	4.1	11	12	<1.0	9.6	<1.0	28	41	<0.10
	ND-14-5.5	3.3	78	14	3.9	11	11	<1.0	9.6	<1.0	28	43	<0.10
ND-15	ND-15-2	<1.0	34	7.2	2.5	5.8	2.8	<1.0	4.7	<1.0	13	15	<0.10
	ND-15-6.5	2.9	88	17	5.4	17	10	<1.0	12	<1.0	32	51	<0.10
ND-16	ND-16-2	2.9	82	18	6.2	17	9.7	<1.0	13	<1.0	31	46	<0.10
	ND-16-5	<1.0	92	14	4.2	14	32	<1.0	9.9	<1.0	25	50	<0.10

**Notes**

1. Samples collected between June 25 through June 26, 2020.
2. Sample depth is the last number in the sample ID (e.g. for ND-1-2.5, the sample depth is approximately 2.5 feet below ground surface).
3. U.S. Environmental Protection Agency (EPA), 2020, Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, May, Industrial Levels (<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>).
4. The arsenic concentration is below the naturally occurring background level of 12 mg/kg established in Southern California (Chernoff et al., 2008; DTSC, 2009).
5. The industrial soil RSL for chromium refers to chromium (III), insoluble salts.
6. Extractable lead concentration was analyzed for ND-10-2 (STLC = 6.2 mg/L).

**Abbreviations**

NA = not available

RSL = Regional Screening Level

STLC = Soluble Threshold Limit Concentration

TCLP = Toxicity Characteristic Leaching Procedure

TTLC = Total Threshold Limit Concentration

< = Not detected at or above the laboratory reporting limit (RL) shown

● = Exceeds TTLC Limit

● = Exceeds 20xTCLP Limit

● = Exceeds 10xSTLC Limit

Gray Highlight = Exceeds one or more screening level and/or waste limit

EPA = United States Environmental Protection Agency

mg/L = milligrams per liter

**Table 3**

**Summary of Analytical Results for Detected Volatile Organic Compounds (VOCs) and  
Total Petroleum Hydrocarbons (TPH) in Groundwater Samples**  
Baseline Investigation - New Dock Parcel  
Port of Los Angeles  
San Pedro, California

Boring ID	Sample ID	EPA Method 8260B (µg/L)		EPA Method 8015B (mg/L)			
		MTBE	tert-Butanol	TPH Gas	TPH Diesel	TPH Oil	Total TPH
	SFBRWQCB ESL <sup>1</sup>	5.0	12	0.76	0.20	NA	NA
ND-3	ND-3-16	1.1	11	<0.20 UJ	<0.05 UJ	0.15	0.15
ND-4	ND-4-12	<0.50	<10	<0.20	0.14 J	0.15	0.29
	ND-DUP	<0.50	<10	<0.20	0.10 J	0.15	0.25
ND-6	ND-6-15	<0.50	<10	<0.20	0.18 J	0.19	0.37
ND-15	ND-15-16	<0.50	11	<0.20 UJ	0.06 J	0.66	0.72
ND-16	ND-16-16	<0.50	27	<0.20	0.19 J	0.64	0.83

Notes

- San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), 2019, Environmental Screening Levels (ESL) User's Guide, San Francisco Bay Regional Water Quality Control Board, Groundwater, Direct Exposure Human Health Risk Levels, Lowest Screening Level. Applied (MCL Priority). In the absence of a MCL, the screening levels for TPHg and TPHd are based on a non-cancer tapwater direct exposure level.
- Samples collected between June 25 through June 26, 2020.
- Sample depth is the last number in the sample ID (e.g. for ND-3-16, the sample depth is approximately 16 feet below ground surface).

Abbreviations

NA = not available

mg/L = milligrams per liter

MCL = Maximum Contaminant Level

EPA = United States Environmental Protection Agency

TPH Gas = Carbon ranges C6 through C12

TPH Diesel = Carbon ranges C13 through C22

TPH Oil = Carbon ranges C23 through C44

J = The analyte was positively identified and the associated numerical value is approximate

UJ = the analyte was not detected at or above the laboratory RL shown or as an estimated non-detected value based on data review

Gray Highlight= Exceeds screening level

µg/L = micrograms per liter

< = Not detected at or above the laboratory reporting limit (RL) shown

Total TPH = The sum of the TPH Gas, TPH Diesel and TPH Oil concentrations

**Table 4**

**Summary of Analytical Results for Detected Metals in Groundwater Samples**

Baseline Investigation - New Dock Parcel  
 Port of Los Angeles  
 San Pedro, California

Boring ID	Sample ID	EPA Method 6010B (mg/L)													EPA Method 7471A/7470A (µg/L)
		Arsenic	Barium	Beryllium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Vanadium	Zinc	Mercury
	SFBRWQCB ESL	0.01	1.0	0.004	0.05	0.006	1.0	0.015	0.10	0.10	0.05	0.10	0.05	5.0	2.0
ND-3	ND-3-16	0.052 J	3.2	0.019	3.5	0.25	1.1	0.49	0.50	0.91	<0.010 UJ	0.0150	1.5	1.7	1.4
ND-4	ND-4-12	0.060 J	1.2	0.011	0.55	0.11	0.20	0.14	0.071	0.26	0.047 J	0.0053	0.75	0.89	<0.20
	ND-DUP	0.13 J	1.4	0.013	0.63	0.14	0.25	0.17	0.084	0.31	<0.010 UJ	0.0057	0.87	1.0	<0.20
ND-6	ND-6-15	0.12 J	3.2	0.020	0.94	0.24	0.54	0.31	0.14	0.49	0.016 J	0.0110	1.1	1.9	0.32
ND-15	ND-15-16	0.36 J	8.4	0.034	1.5	0.51	1.6	1.1	0.19	0.89	<0.010 UJ	0.0120	1.6	4.0	1.1
ND-16	ND-16-16	0.28 J	7.8	0.028	1.4	0.41	1.3	1.2	0.16	0.86	<0.010 UJ	0.0092	1.4	3.6	0.54

**Notes**

- San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), 2019, Environmental Screening Levels (ESL) User's Guide, San Francisco Bay Regional Water Quality Control Board, Groundwater, Direct Exposure Human Health Risk Levels, Lowest Screening Level Applied (MCL Priority). In the absence of a MCL, the screening levels for three metals (cobalt, molybdenum and vanadium) are based on a non-cancer tapwater direct exposure level.
- Samples collected between June 25 through June 26, 2020.
- Sample depth is the last number in the sample ID (e.g. for ND-3-16, the sample depth is approximately 16 feet below ground surface).

**Abbreviations**

EPA = United States Environmental Protection Agency

MCL = Maximum Contaminant Level

mg/L = milligrams per liter

µg/L = micrograms per liter

< = Not detected at or above the laboratory reporting limit (RL) shown

UJ = the analyte was not detected at or above the laboratory RL shown or as an estimated non-detected value based on data review

J = The analyte was positively identified and the associated numerical value is approximate

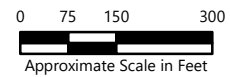
Gray Highlight= Exceeds screening level



**wood.**

## **Figures**

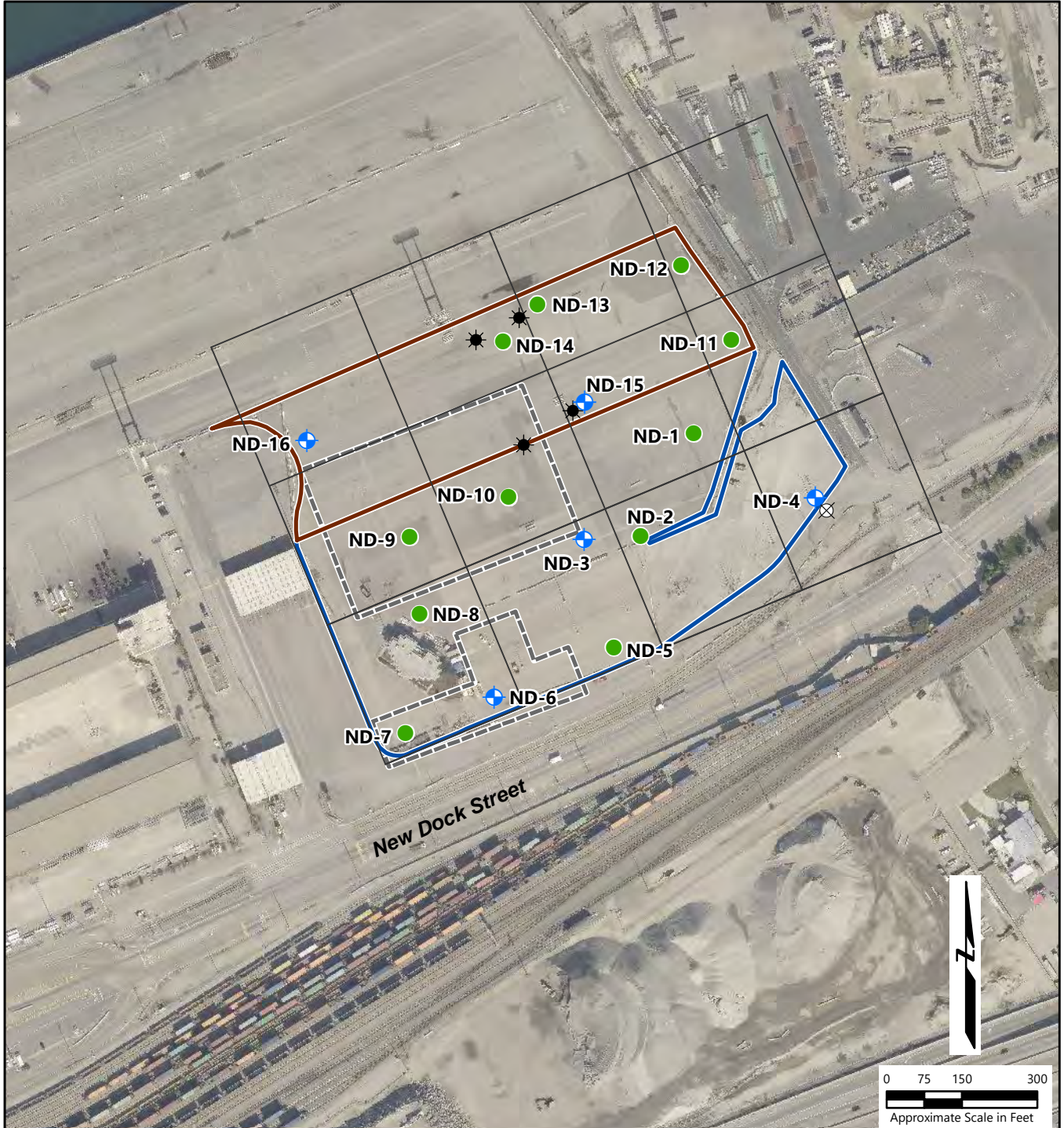




Basemap modified from aerial photograph provided by USGS dated June 2014 and Street Map provided by Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, ©OpenStreetMap contributors, and the GIS User Community.

<b>SITE LOCATION</b> New Dock - Parcel RP 16-40 and SA 19-07 (Term Permit) and Future Expansion Area Port of Los Angeles, California		
By: pah	Date: 8/20/2020	Project No.: CM20167750
		Figure <b>1</b>

Date: 8/20/2020 Printed by: pat.herring  
 Path: Y:\CM20167750 (POLA)\esri\Baseline\_Soil-GW\_Invest\New Dock-Sample Locations.mxd



**Explanation**

- Soil sample location (Wood, 2020)
- ⊕ Soil and groundwater sample location (Wood, 2020)
- ★ Plugged oil and gas well
- ⊗ Plugged injector well
- Future expansion
- Permit area
- Approximate location of former building based on the USGS 7.5-minute Topographic Map dated 1964
- Sample grid, 300 foot interval

**Note:**

Soil sample and soil and groundwater sample locations are approximate pending final GPS measurements.

Basemap modified from aerial photograph provided by USGS dated June 2014 and Street Map provided by Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, ©OpenStreetMap contributors, and the GIS User Community.

**SAMPLE LOCATIONS**  
 New Dock - Parcel  
 Baseline Soil and Groundwater Investigation  
 Port of Los Angeles, California

By: pah	Date: 8/20/2020	Project No.: CM20167750
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**Appendix A**

**Boring Permits**







# ENVIRONMENTAL HEALTH

## Drinking Water Program



5050 Commerce Drive, Baldwin Park, CA 91706

Telephone: (626) 430-5420 • Facsimile: (626) 813-3013 • Email: [waterquality@ph.lacounty.gov](mailto:waterquality@ph.lacounty.gov)

[http://publichealth.lacounty.gov/eh/ep/dw/dw\\_main.htm](http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm)

**SR0224700**

### 425 South Palos Verdes Street (APN. 7440-029-917), San Pedro, CA 90731 Work Plan Approval

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS FOR WELL PERMIT APPROVAL
425 South Palos Verdes Street (APN. 7440-029-917)	San Pedro	90731	<a href="mailto:jorge.perez@woodplc.com">jorge.perez@woodplc.com</a>

**NOTICE:**

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- **ONCE APPROVED NOTIFY INSPECTOR AT [ytaye@ph.lacounty.gov](mailto:ytaye@ph.lacounty.gov) PREFERABLY 3 BUSINESS DAYS BEFORE WORK IS SCHEDULED TO BEGIN.**

**WORK PLAN APPROVED (5 soil borings)**

**DATE: June 11, 2020**

**ADDITIONAL APPROVAL CONDITIONS:**

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- Ensure to backfill using a tremie pipe or equivalent, proceeding upward from the bottom of the boring.
- Exploration holes must comply with all applicable requirements published in the [California Well Standards \(Bulletins 74-81 and 74-90\)](#), [Los Angeles County Code](#) and all other applicable laws.



REHS NO. 7115  
*Yonas Taye*

Yonas Taye, REHS

ANNULAR SEAL FINAL INSPECTION REQUIRED

WELL COMPLETION LOG REQUIRED

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature

WATER QUALITY—BACTERIOLOGICAL STANDARDS REQUIRED

WATER QUALITY—CHEMICAL STANDARDS REQUIRED

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature

WATER SUPPLY YIELD REQUIRED

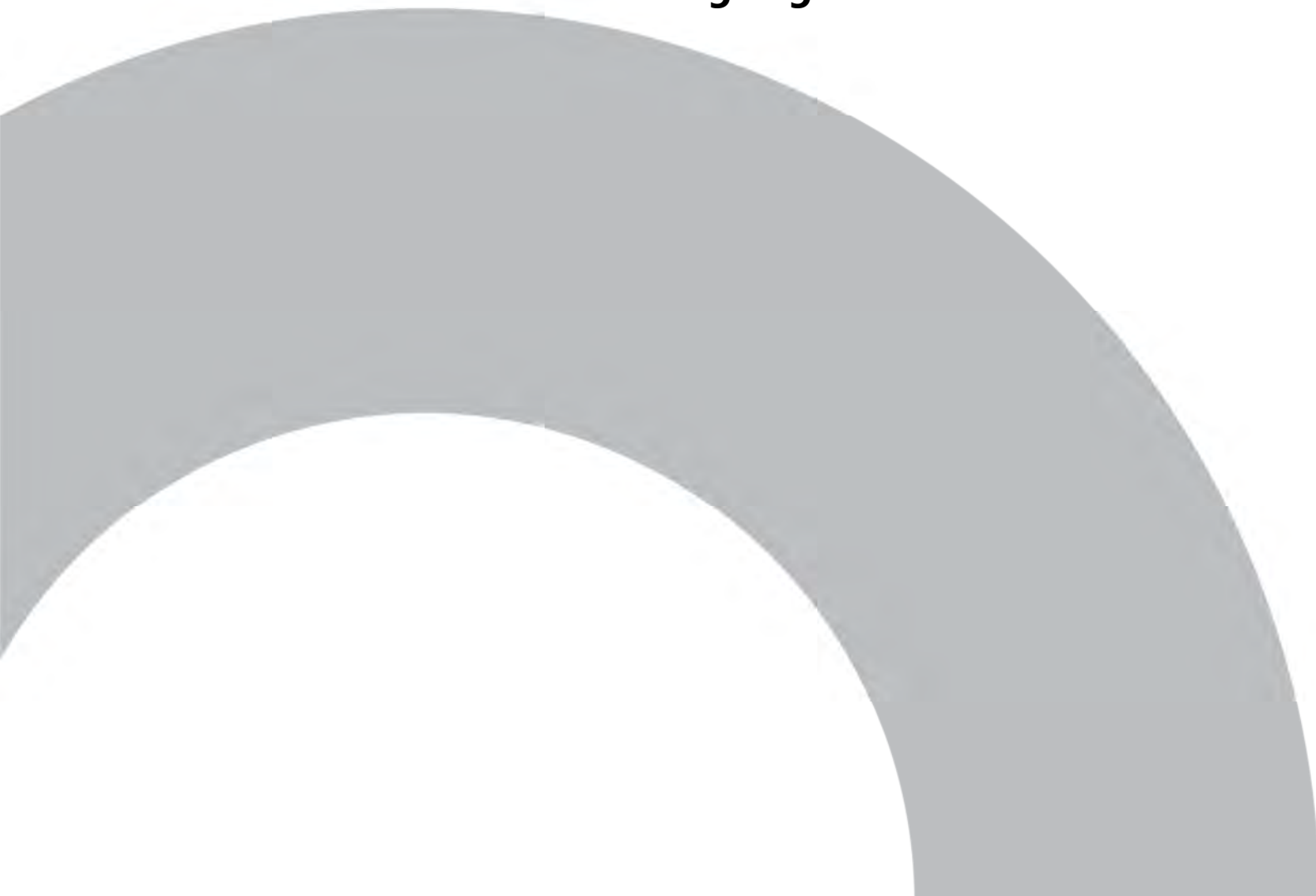
OTHER REQUIREMENT

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature



**Appendix B**  
**Soil Boring Logs**



PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-1</b>			
BORING LOCATION: E: 6487528.0287; N:1735466.3279		ELEVATION AND DATUM: Not Measured and Ground Surface			
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/25/20		DATE FINISHED: 6/25/20	
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 5.5		MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A	COMPL. N/A	24 HRS. N/A
SAMPLING METHOD: Slide hammer		LOGGED BY: Jorge Perez			
HAMMER WEIGHT: N/A		DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1				Asphalt 8" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-1-2.5	█		SILTY SAND (SM): brown (10YR 5/3), moist, ~85% fine to coarse sand, ~15% low plasticity fines	0.0	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3						
4						
5	ND-1-5.5	█		Bottom of boring at 5.5 feet bgs.	0.0	PID Readings taken from head space in soil placed in resealable plastic bags.
6						
7						Boring was destroyed by placing hydrated bentonite chips to total depth.
8						
9						
10						
11						
12						
13						
14						

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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-2</b>			
BORING LOCATION: Pending		ELEVATION AND DATUM: Not Measured and Ground Surface			
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/25/20		DATE FINISHED: 6/25/20	
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 5.5		MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A	COMPL. N/A	24 HRS. N/A
SAMPLING METHOD: Slide hammer		LOGGED BY: Jorge Perez			
HAMMER WEIGHT: N/A		DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1				Asphalt ~8" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-2-2.5	█		SILTY SAND (SM): brown (10YR 5/3), moist, ~80% fine to coarse sand, ~20% low plasticity fines	0.0	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3						
4						
5	ND-2-5.5	█		dark greenish gray (GLE Y1 4/10GY)	0.0	PID Readings taken from head space in soil placed in resealable plastic bags.
6				Bottom of boring at 5.5 feet bgs.		
7						Boring was destroyed by placing hydrated bentonite chips to total depth.
8						
9						
10						
11						
12						
13						
14						

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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-3</b>	
BORING LOCATION: E: 6487309.4720 ; N: 1735253.9568		ELEVATION AND DATUM: Not Measured and Ground Surface	
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/26/20	DATE FINISHED: 6/26/20
DRILLING METHOD: Hand Auger/Direct Push		TOTAL DEPTH (ft.): 16.0	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: Geoprobe 6600		DEPTH TO WATER	FIRST 10.9
SAMPLING METHOD: Slide hammer/Dual tube		COMPL. N/A	24 HRS. N/A
HAMMER WEIGHT: N/A		LOGGED BY: Jorge Perez	
DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1				Asphalt ~12" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-3-2.5	█		POORLY GRADED SAND with SILT (SP-SM): brown (10YR 5/3), moist, ~90% fine to coarse sand, ~10% low plasticity fines	0.0	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3						
4				olive (5Y 4/3)		
5	ND-3-5.5	█		SILTY SAND (SM): brown (10YR 5/3), moist, ~75% fine to coarse sand, ~25% low plasticity fines	0.0	PID Readings taken from head space in soil placed in resealable plastic bags.
6						
7				Asphalt		
8				olive gray (5Y 4/2), ~85% fine to medium sand, predominantly fine, ~15% fines		
9						
10					0.0	Set temp well screened 11-16' bgs
11				wet		DTW = 10.9' bgs Tide = +4.11
12						
13						
14						

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## Log of Boring No. ND-3 (cont'd)

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15	ND-3-16			SILTY SAND (SM): continued		Groundwater sample ND-3-16 was collected with a plastic disposable bailer.  Boring was destroyed by placing cement-bentonite grout to total depth.
16				Bottom of boring at 16 feet bgs.		
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
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28						
29						
30						
31						

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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-4</b>	
BORING LOCATION: E: 6487770.2967; N: 1735336.9465		ELEVATION AND DATUM: Not Measured and Ground Surface	
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/25/20	DATE FINISHED: 6/25/20
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 12.0	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: Geoprobe 6600		DEPTH TO WATER 4.8	FIRST 4.8 COMPL. N/A 24 HRS. N/A
SAMPLING METHOD: Slide hammer/Dual tube		LOGGED BY: Jorge Perez	
HAMMER WEIGHT: N/A	DROP: N/A	RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1				Asphalt ~7" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-4-2.5	Asphalt		Asphalt	0.6	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3				LEAN CLAY with SAND (CL): very dark greenish gray (GLE Y 3/10GY), moist, ~85% fines, ~15% fine sand, medium plasticity, slow dilatancy, slight odor, roots present		
4						PID Readings taken from head space in soil placed in resealable plastic bags.
5	ND-4-5				0.9	
6						Set temp well screened 7-12' bgs DTW = 4.8' bgs Tide = -0.1'
7						
8				SILTY SAND (SM): very dark greenish gray (GLE Y 3/10GY), wet, ~85% fine sand, ~15% low plasticity fines		Groundwater sample ND-4-12 was collected with a plastic disposable bailer. Duplicate sample ND-Dup was collected
9						
10						Boring was destroyed by placing cement-bentonite grout to total depth
11						
12	ND-4-12			Bottom of boring at 12 feet bgs.		
13						
14						

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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-5</b>			
BORING LOCATION: Pending		ELEVATION AND DATUM: Not Measured and Ground Surface			
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/25/20		DATE FINISHED: 6/25/20	
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 5.0		MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A	COMPL. N/A	24 HRS. N/A
SAMPLING METHOD: Slide hammer		LOGGED BY: Jorge Perez			
HAMMER WEIGHT: N/A		DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1				Asphalt ~9" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-5-2.5	█		CLAYEY SAND (SC): olive brown (2.5Y 4/3), moist, ~65% fine to medium sand, ~35% medium plasticity fines	0.0	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3				~55% fine sand, ~45% fines ▼		
4						
5	ND-5-5	█		Bottom of boring at 5 feet bgs.	0.0	PID Readings taken from head space in soil placed in resealable plastic bags.
6						
7						
8						Boring was destroyed by placing hydrated bentonite chips to total depth.
9						
10						
11						
12						
13						
14						

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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-6</b>	
BORING LOCATION: E: 6487131.1215; N: 1734940.0393		ELEVATION AND DATUM: Not Measured and Ground Surface	
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/25/20	DATE FINISHED: 6/25/20
DRILLING METHOD: Hand Auger/Direct Push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: Geoprobe 6600		DEPTH TO WATER	FIRST 10.45
SAMPLING METHOD: Slide hammer/Dual tube		COMPL. N/A	24 HRS. N/A
HAMMER WEIGHT: N/A		LOGGED BY: Jorge Perez	
DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1				Asphalt ~8" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-6-2.5	█		SILTY SAND (SM): dark greenish gray (GLE Y1 4/10Y), moist, ~80% fine to medium sand, ~20% low plasticity fines	0.0	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3				~65% sand, ~35% fines		
4						
5	ND-6-5.5	█			0.0	PID Readings taken from head space in soil placed in resealable plastic bags.
6				fine gravel		
7				~3" lean clay		
8				~80% fine sand, ~20% fines, trace shells		
9				~3" lean clay		
10				wet, ~85% fine sand, ~15% fines		
11						
12				SANDY SILTY (ML): dark greenish gray (GLE Y1 4/10Y), wet, ~70% fines, ~30% fine sand, low plasticity fines, rapid dilatancy		Set temp well screened 10-15' bgs.
13						DTW = 10.45' bgs Tide = +0.2
14						

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## Log of Boring No. ND-6 (cont'd)

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15	ND-6-15			SILTY SAND (SM): continued		Groundwater sample ND-6-15 was collected with a plastic disposable bailer.  Boring was destroyed by placing cement-bentonite grout to total depth.
16				Bottom of boring at 15 feet bgs.		
17						
18						
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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-7</b>			
BORING LOCATION: E: 6486953.8019; N: 1734868.9053		ELEVATION AND DATUM: Not Measured and Ground Surface			
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/25/20		DATE FINISHED: 6/25/20	
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 5.5		MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A	COMPL. N/A	24 HRS. N/A
SAMPLING METHOD: Slide hammer		LOGGED BY: Jorge Perez			
HAMMER WEIGHT: N/A		DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1				Asphalt ~8" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-7-2.5	█		SILTY SAND (SM): mottled brown (10YR 5/3) and dark greenish gray (GLE Y1 4/10GY), ~75% fine to medium sand, ~25% low plasticity fines	0.1	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3						
4				— plastic debris — ~70% sand, ~30% fines		
5	ND-7-5.5	█		Bottom of boring at 5.5 feet bgs.	0.1	PID Readings taken from head space in soil placed in resealable plastic bags.
6						
7						Boring was destroyed by placing hydrated bentonite chips to total depth.
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9						
10						
11						
12						
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14						

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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-8</b>			
BORING LOCATION: E: 6486981.6369; N:1735106.0187		ELEVATION AND DATUM: Not Measured and Ground Surface			
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/25/20		DATE FINISHED: 6/25/20	
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 6.0		MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A	COMPL. N/A	24 HRS. N/A
SAMPLING METHOD: Slide hammer		LOGGED BY: Jorge Perez			
HAMMER WEIGHT: N/A		DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1				Asphalt ~8" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2						
3	ND-8-3	█		SILTY SAND (SM): brown (10YR 5/3), moist, ~80% fine to medium sand, ~20% low plasticity fines	0.0	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
4						
5						
6	ND-8-6	█		Bottom of boring at 6 feet bgs.	0.0	PID Readings taken from head space in soil placed in resealable plastic bags.
7						Boring was destroyed by placing hydrated bentonite chips to total depth.
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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-9</b>			
BORING LOCATION: Pending		ELEVATION AND DATUM: Not Measured and Ground Surface			
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/25/20		DATE FINISHED: 6/25/20	
DRILLING METHOD: Hand Auger/Direct Push		TOTAL DEPTH (ft.): 5.5		MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A	COMPL. N/A	24 HRS. N/A
SAMPLING METHOD: Slide hammer		LOGGED BY: Jorge Perez			
HAMMER WEIGHT: N/A		DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1				Asphalt ~8" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-9-2.5	█		SILTY SAND (SM): olive (5Y 4/3), moist, ~80% fine to medium sand, ~20% low plasticity fines	0.2	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3						
4				dark greenish gray (GLE Y1 4/10GY)		PID Readings taken from head space in soil placed in resealable plastic bags.
5	ND-9-5.5	█			0.0	Boring was destroyed by placing hydrated bentonite chips to total depth.
6				Bottom of boring at 5.5 feet bgs.		
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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-10</b>			
BORING LOCATION: Pending		ELEVATION AND DATUM: Not Measured and Ground Surface			
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/25/20		DATE FINISHED: 6/25/20	
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 5.5		MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A	COMPL. N/A	24 HRS. N/A
SAMPLING METHOD: Slide hammer		LOGGED BY: Jorge Perez			
HAMMER WEIGHT: N/A		DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1				Asphalt ~8" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-10-2	█		SILTY SAND (SM): mottled brown (10YR 5/3) and very dark greenish gray (GLE Y1 3/10GY), moist, ~75% fine to medium sand, ~25% low plasticity fines, trace fragmented shells, slight odor	0.0	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3						
4						
5	ND-10-5.5	█		Bottom of boring at 5.5 feet bgs.	0.0	PID Readings taken from head space in soil placed in resealable plastic bags.
6						Boring was destroyed by placing hydrated bentonite chips to total depth.
7						
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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-11</b>	
BORING LOCATION: E: 6487603.2864; N: 1735651.8949		ELEVATION AND DATUM: Not Measured and Ground Surface	
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/26/20	DATE FINISHED: 6/26/20
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 5.5	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A
SAMPLING METHOD: Slide hammer		COMPL. N/A	24 HRS. N/A
HAMMER WEIGHT: N/A		LOGGED BY: Jorge Perez	
DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1	ND-11-2.5	[Black Box]		Asphalt ~15" Poorly graded gravel with sand (GP): Gravel base	0.0	Hand Augered to 5' bgs.  Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
2				SILTY SAND (SM): brown (10YR 5/3), moist, ~80% fine to coarse sand, 20% low plasticity fines		
3	ND-11-5.5	[Black Box]		trace coarse subangular gravel	0.0	PID Readings taken from head space in soil placed in resealable plastic bags.  Boring was destroyed by placing hydrated bentonite chips to total depth.
4				gravel is absent		
5				Bottom of boring at 5.5 feet bgs.		
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7						
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PROJECT: Port of Los Angeles - New Dock Parcel		<b>Log of Boring No. ND-12</b>	
BORING LOCATION: E: 6487503.2864; N: 1735800.3486		ELEVATION AND DATUM: Not Measured and Ground Surface	
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/26/20	DATE FINISHED: 6/26/20
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 6.0	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A
SAMPLING METHOD: Slide hammer		COMPL. N/A	24 HRS. N/A
HAMMER WEIGHT: N/A		LOGGED BY: Jorge Perez	
DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1				Asphalt ~12" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2					0.0	Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3	ND-12-3	█		SILTY SAND (SM): very dark greenish gray (GLE1 3/5GY), moist, ~80% fine to coarse sand, ~20% low plasticity fines, fragmented shells present		
4				trace fine gravel ↓		
5						
6	ND-12-6	█		Bottom of boring at 6 feet bgs.	0.0	PID Readings taken from head space in soil placed in resealable plastic bags.
7						
8						Boring was destroyed by placing hydrated bentonite chips to total depth.
9						
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11						
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PROJECT: Port of Los Angeles – New Dock Parcel		<b>Log of Boring No. ND-13</b>	
BORING LOCATION: Pending		ELEVATION AND DATUM: Not Measured and Ground Surface	
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/26/20	DATE FINISHED: 6/26/20
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 6.5	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A
SAMPLING METHOD: Slide hammer		COMPL. N/A	24 HRS. N/A
HAMMER WEIGHT: N/A		LOGGED BY: Jorge Perez	
DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
1				Asphalt ~14" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2						Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
3	ND-13-3-5	█		SILTY SAND (SM): dark olive gray (5Y 3/2), ~80% fine to medium sand, ~20% low plasticity fines, shells	0.0	
4				trace fine to coarse subangular gravel		
5						
6	ND-13-6-5	█		Bottom of boring at 6.5 feet bgs.	0.0	PID Readings taken from head space in soil placed in resealable plastic bags.
7						
8						Boring was destroyed by placing hydrated bentonite chips to total depth.
9						
10						
11						
12						
13						
14						

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PROJECT: Port of Los Angeles – New Dock Parcel		<b>Log of Boring No. ND-14</b>			
BORING LOCATION: Pending		ELEVATION AND DATUM: Not Measured and Ground Surface			
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/26/20		DATE FINISHED: 6/26/20	
DRILLING METHOD: Hand Auger		TOTAL DEPTH (ft.): 5.5		MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: Hand Auger		DEPTH TO WATER	FIRST N/A	COMPL. N/A	24 HRS. N/A
SAMPLING METHOD: Slide hammer		LOGGED BY: Jorge Perez			
HAMMER WEIGHT: N/A		DROP: N/A		RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1				Asphalt ~12" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-14-2.5	█		SILTY SAND (SM): brown (10YR 5/3), moist, ~80% fine to coarse sand, ~20% low plasticity fines	0.0	
3						
4				shells present		Calibrated PID (MiniRAE 3000) to 100 ppm isobutylene and ambient air
5	ND-14-5.5	█			0.0	
6				Bottom of boring at 5.5 feet bgs.		PID Readings taken from head space in soil placed in resealable plastic bags.
7						Boring was destroyed by placing hydrated bentonite chips to total depth.
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9						
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PROJECT: Port of Los Angeles – New Dock Parcel		<b>Log of Boring No. ND-15</b>	
BORING LOCATION: E: 6487310.5029; N: 1735528.1836		ELEVATION AND DATUM: Not Measured and Ground Surface	
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/26/20	DATE FINISHED: 6/26/20
DRILLING METHOD: Hand Auger/Direct Push		TOTAL DEPTH (ft.): 16.0	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: Geoprobe 6600		DEPTH TO WATER 11.70	COMPL. 24 HRS. N/A N/A
SAMPLING METHOD: Slide hammer/Dual tube		LOGGED BY: Jorge Perez	
HAMMER WEIGHT: N/A	DROP: N/A	RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1	ND-15-2	[Black Box]		Asphalt ~10" Poorly graded gravel with sand (GP): Gravel base	0.0	Hand Augered to 5' bgs.
2				SILTY SAND (SM): brown (10YR 5/3), moist, ~80% fine to coarse sand, predominantly medium, ~20% low plasticity fines		
3	ND-15-6.5	[Black Box]		SANDY LEAN CLAY (CL): brown (10YR 4/3), moist, ~60% fines, ~40% fine to coarse sand, medium plasticity, slow dilatancy	0.0	PID Readings taken from head space in soil placed in resealable plastic bags.
6						
8				SILTY SAND (SM): dark greenish gray (GLE Y1 4/5GY), moist, ~80% fine to medium sand, ~20% low plasticity fines		
10				wet		Set temp well screened 11-16' bgs DTW = 11.70' bgs Tide = + 2.0
11						
12						
13						
14						

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DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15	ND-15-16	[Solid Black Box]		SILTY SAND (SM): continued		Groundwater sample ND-15-16 was collected with a plastic disposable bailer.  Boring was destroyed by placing cement-bentonite grout to total depth.
16				Bottom of boring at 16 feet bgs.		
17						
18						
19						
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31						

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PROJECT: Port of Los Angeles – New Dock Parcel		<b>Log of Boring No. ND-16</b>	
BORING LOCATION: E: 6486758.2647; N: 1735451.6466		ELEVATION AND DATUM: Not Measured and Ground Surface	
DRILLING CONTRACTOR: InterPhase Environmental, Inc.		DATE STARTED: 6/26/20	DATE FINISHED: 6/26/20
DRILLING METHOD: Hand Auger/Direct Push		TOTAL DEPTH (ft.): 16.0	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: Geoprobe 6600		DEPTH TO WATER	FIRST 13.05 COMPL. N/A 24 HRS. N/A
SAMPLING METHOD: Slide hammer/Dual tube		LOGGED BY: Jorge Perez	
HAMMER WEIGHT: N/A	DROP: N/A	RESPONSIBLE PROFESSIONAL: Kim Holland-Chominsky	REG. NO. 7033

DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.  Surface Elevation: Not Measured and Ground Surface	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/6 inches			
1				Asphalt ~12" Poorly graded gravel with sand (GP): Gravel base		Hand Augered to 5' bgs.
2	ND-16-2	█		SILTY SAND (SM): brown (10YR 5/3), moist, ~80% fine to coarse sand, ~20% low plasticity fines, trace fragmented shells	0.0	Calibrated PID (MiniRAE 3000) to 100 ppm Isobutyle and Fresh Air
3				dark greenish gray (5GY 4/2)		
4						PID Readings taken from head space in soil placed in resealable plastic bags.
5	ND-16-5	█			0.0	
6						Set temp well screened 11-16' bgs
7						
8				subangular gravel and concrete		DTW = 13.05' bgs Tide =+ 0.68
9						
10					0.0	
11						
12				~2" brick		
13				concrete/gravel		
14				wet, predominantly fine sand		

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DEPTH (feet)	SAMPLES			DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	Sample No.	Sample	Blows/ 6 inches			
15	ND-16-16			SILTY SAND (SM): continued		Groundwater sample ND-16-16 was collected with a plastic disposable bailer.  Boring was destroyed by placing cement-bentonite grout to total depth.
16				Bottom of boring at 16 feet bgs.		
17						
18						
19						
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## **Appendix C**

### **Laboratory Reports and Chain-of-Custody Documentation**

July 16, 2020

Jorge Perez  
Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626  
Tel: (949) 574-7519  
Fax:(949) 642-4474

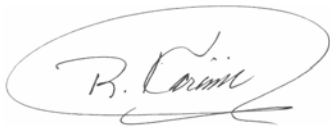
ELAP No.: 1838  
CSDLAC No.: 10196  
ORELAP No.: CA300003

Re: ATL Work Order Number : 2001528  
Client Reference : New Dock

Enclosed are the results for sample(s) received on June 25, 2020 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Dr. Reza Karimi  
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

### SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ND-4-2.5	2001528-01	Soil	6/25/20 8:05	6/25/20 16:03
QCTB-062220	2001528-02	Water	6/25/20 7:30	6/25/20 16:03
ND-4-5	2001528-03	Soil	6/25/20 8:00	6/25/20 16:03
ND-4-12	2001528-04	Water	6/25/20 8:50	6/25/20 16:03
ND-DUP	2001528-05	Water	6/25/20 9:40	6/25/20 16:03
ND-5-2.5	2001528-06	Soil	6/25/20 9:30	6/25/20 16:03
ND-5-5	2001528-07	Soil	6/25/20 9:35	6/25/20 16:03
ND-6-2.5	2001528-08	Soil	6/25/20 10:10	6/25/20 16:03
ND-6-5.5	2001528-09	Soil	6/25/20 10:15	6/25/20 16:03
ND-6-15	2001528-10	Water	6/25/20 10:45	6/25/20 16:03
ND-7-2.5	2001528-11	Soil	6/25/20 11:15	6/25/20 16:03
ND-7-5.5	2001528-12	Soil	6/25/20 11:25	6/25/20 16:03
ND-8-3	2001528-13	Soil	6/25/20 11:55	6/25/20 16:03
ND-8-6	2001528-14	Soil	6/25/20 12:00	6/25/20 16:03
ND-9-2.5	2001528-15	Soil	6/25/20 12:35	6/25/20 16:03
ND-9-5.5	2001528-16	Soil	6/25/20 12:45	6/25/20 16:03
ND-10-2	2001528-17	Soil	6/25/20 13:15	6/25/20 16:03
ND-10-5.5	2001528-18	Soil	6/25/20 13:25	6/25/20 16:03
ND-1-2.5	2001528-19	Soil	6/25/20 14:00	6/25/20 16:03
ND-1-5.5	2001528-20	Soil	6/25/20 14:05	6/25/20 16:03
ND-2-2.5	2001528-21	Soil	6/25/20 14:35	6/25/20 16:03
ND-2-5.5	2001528-22	Soil	6/25/20 14:40	6/25/20 16:03



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-2.5**

**Lab ID: 2001528-01**

**Title 22 Metals by ICP-AES EPA 6010B**

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:38	
<b>Arsenic</b>	<b>3.6</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
<b>Barium</b>	<b>140</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
<b>Chromium</b>	<b>31</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
<b>Cobalt</b>	<b>10</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
<b>Copper</b>	<b>38</b>	2.0	1	B0G0007	07/01/2020	07/01/20 13:38	
<b>Lead</b>	<b>15</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
<b>Molybdenum</b>	<b>1.5</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
<b>Nickel</b>	<b>23</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
<b>Vanadium</b>	<b>51</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	
<b>Zinc</b>	<b>79</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:38	

**Mercury by AA (Cold Vapor) EPA 7471A**

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 14:28	

**Gasoline Range Organics by EPA 8015B (Modified)**

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0002	07/01/2020	07/01/20 12:22	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>85.0 %</i>	<i>45 - 149</i>		B0G0002	07/01/2020	07/01/20 12:22	

**Hydrocarbon Chain Distribution by EPA 8015B (Modified)**

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	10	10	B0F0641	06/29/2020	07/01/20 15:50	
<b>C13-C40 Total</b>	<b>1300</b>	10	10	B0F0641	06/29/2020	07/01/20 15:50	



## Certificate of Analysis

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Project Number : New Dock  
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**Client Sample ID: ND-4-2.5**

**Lab ID: 2001528-01**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	33	10	10	B0F0641	06/29/2020	07/01/20 15:50	
C17-C18	72	10	10	B0F0641	06/29/2020	07/01/20 15:50	
C19-C20	76	10	10	B0F0641	06/29/2020	07/01/20 15:50	
C21-C22	83	10	10	B0F0641	06/29/2020	07/01/20 15:50	
C23-C24	79	10	10	B0F0641	06/29/2020	07/01/20 15:50	
C25-C26	91	10	10	B0F0641	06/29/2020	07/01/20 15:50	
C27-C28	92	10	10	B0F0641	06/29/2020	07/01/20 15:50	
C29-C32	230	10	10	B0F0641	06/29/2020	07/01/20 15:50	
C33-C36	260	10	10	B0F0641	06/29/2020	07/01/20 15:50	
C37-C40	320	10	10	B0F0641	06/29/2020	07/01/20 15:50	
Surrogate: <i>p</i> -Terphenyl	59.0 %	15 - 110		B0F0641	06/29/2020	07/01/20 15:50	

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,1,1-Trichloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,1,2,2-Tetrachloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,1,2-Trichloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,1-Dichloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,1-Dichloroethene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,1-Dichloropropene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,2,3-Trichloropropane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,2,3-Trichlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,2,4-Trichlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,2,4-Trimethylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,2-Dibromo-3-chloropropane	ND	8.7	1	B0F0588	06/27/2020	06/27/20 01:22	
1,2-Dibromoethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,2-Dichlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,2-Dichloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,2-Dichloropropane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,3,5-Trimethylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,3-Dichlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,3-Dichloropropane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
1,4-Dichlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-2.5**

**Lab ID: 2001528-01**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
2-Chlorotoluene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
4-Chlorotoluene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
4-Isopropyltoluene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Benzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Bromobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Bromochloromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Bromodichloromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Bromoform	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Bromomethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Carbon disulfide	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Carbon tetrachloride	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Chlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Chloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Chloroform	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Chloromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
cis-1,2-Dichloroethene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
cis-1,3-Dichloropropene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Di-isopropyl ether	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Dibromochloromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Dibromomethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Dichlorodifluoromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Ethyl Acetate	ND	43	1	B0F0588	06/27/2020	06/27/20 01:22	
Ethyl Ether	ND	43	1	B0F0588	06/27/2020	06/27/20 01:22	
Ethyl tert-butyl ether	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Ethylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Freon-113	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Hexachlorobutadiene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Isopropylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
m,p-Xylene	ND	8.7	1	B0F0588	06/27/2020	06/27/20 01:22	
Methylene chloride	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
MTBE	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
n-Butylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
n-Propylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Naphthalene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
o-Xylene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-2.5**

**Lab ID: 2001528-01**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Styrene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
tert-Amyl methyl ether	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
tert-Butanol	ND	87	1	B0F0588	06/27/2020	06/27/20 01:22	
tert-Butylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Tetrachloroethene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Toluene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
trans-1,2-Dichloroethene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
trans-1,3-Dichloropropene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Trichloroethene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Trichlorofluoromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
Vinyl acetate	ND	43	1	B0F0588	06/27/2020	06/27/20 01:22	
Vinyl chloride	ND	4.3	1	B0F0588	06/27/2020	06/27/20 01:22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>147 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 01:22	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 01:22	
<i>Surrogate: Dibromofluoromethane</i>	<i>123 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 01:22	
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 01:22	

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Acenaphthene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Acenaphthylene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Anthracene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Benzo(a)anthracene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Benzo(a)pyrene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Benzo(b)fluoranthene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Benzo(g,h,i)perylene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Benzo(k)fluoranthene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Chrysene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Dibenz(a,h)anthracene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Fluoranthene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Fluorene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Indeno(1,2,3-cd)pyrene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-2.5**

**Lab ID: 2001528-01**

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Naphthalene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
<b>Phenanthrene</b>	<b>450</b>	120	25	B0G0164	07/09/2020	07/13/20 14:51	
Pyrene	ND	120	25	B0G0164	07/09/2020	07/13/20 14:51	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>12 - 125</i>		B0G0164	07/09/2020	<i>07/13/20 14:51</i>	<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>	<i>14 - 139</i>		B0G0164	07/09/2020	<i>07/13/20 14:51</i>	<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>	<i>8 - 155</i>		B0G0164	07/09/2020	<i>07/13/20 14:51</i>	<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>	<i>16 - 152</i>		B0G0164	07/09/2020	<i>07/13/20 14:51</i>	<i>S4</i>



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: QCTB-062220**

**Lab ID: 2001528-02**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,1,1-Trichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,1,2-Trichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,1-Dichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,1-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,1-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,2,3-Trichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,2,3-Trichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,2,4-Trichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,2,4-Trimethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,2-Dibromoethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,2-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,2-Dichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,2-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,3,5-Trimethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,3-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,3-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
1,4-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
2,2-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
2-Chlorotoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
4-Chlorotoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
4-Isopropyltoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Benzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Bromobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Bromochloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Bromodichloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Bromoform	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Bromomethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Carbon disulfide	ND	1.0	1	B0F0579	06/26/2020	06/26/20 15:22	
Carbon tetrachloride	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Chlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Chloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Chloroform	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Chloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: QCTB-062220**

**Lab ID: 2001528-02**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
cis-1,3-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Di-isopropyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Dibromochloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Dibromomethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Dichlorodifluoromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Ethyl Acetate	ND	10	1	B0F0579	06/26/2020	06/26/20 15:22	
Ethyl Ether	ND	10	1	B0F0579	06/26/2020	06/26/20 15:22	
Ethyl tert-butyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Ethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Freon-113	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Hexachlorobutadiene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Isopropylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
m,p-Xylene	ND	1.0	1	B0F0579	06/26/2020	06/26/20 15:22	
Methylene chloride	ND	1.0	1	B0F0579	06/26/2020	06/26/20 15:22	
MTBE	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
n-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
n-Propylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Naphthalene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
o-Xylene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
sec-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Styrene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
tert-Amyl methyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
tert-Butanol	ND	10	1	B0F0579	06/26/2020	06/26/20 15:22	
tert-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Tetrachloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Toluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
trans-1,2-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
trans-1,3-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Trichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Trichlorofluoromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
Vinyl acetate	ND	10	1	B0F0579	06/26/2020	06/26/20 15:22	
Vinyl chloride	ND	0.50	1	B0F0579	06/26/2020	06/26/20 15:22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>117 %</i>	<i>59 - 158</i>		B0F0579	06/26/2020	06/26/20 15:22	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93.1 %</i>	<i>71 - 127</i>		B0F0579	06/26/2020	06/26/20 15:22	
<i>Surrogate: Dibromofluoromethane</i>	<i>107 %</i>	<i>66 - 147</i>		B0F0579	06/26/2020	06/26/20 15:22	





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: QCTB-062220**

**Lab ID: 2001528-02**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>98.2 %</i>	<i>77 - 138</i>		B0F0579	06/26/2020	06/26/20 15:22	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-5**  
**Lab ID: 2001528-03**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:40	
<b>Arsenic</b>	<b>6.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
<b>Barium</b>	<b>120</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
<b>Chromium</b>	<b>27</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
<b>Cobalt</b>	<b>9.7</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
<b>Copper</b>	<b>36</b>	2.0	1	B0G0007	07/01/2020	07/01/20 13:40	
<b>Lead</b>	<b>14</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
<b>Molybdenum</b>	<b>2.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
<b>Nickel</b>	<b>20</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
<b>Vanadium</b>	<b>44</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	
<b>Zinc</b>	<b>73</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:40	

### Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 14:38	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0002	07/01/2020	07/01/20 12:46	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>81.2 %</i>	<i>45 - 149</i>		B0G0002	07/01/2020	07/01/20 12:46	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
<b>C13-C40 Total</b>	<b>17</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-5**  
**Lab ID: 2001528-03**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
C17-C18	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
<b>C19-C20</b>	<b>1.1</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
<b>C21-C22</b>	<b>1.1</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
<b>C23-C24</b>	<b>1.1</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
<b>C25-C26</b>	<b>1.2</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
<b>C27-C28</b>	<b>1.2</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
<b>C29-C32</b>	<b>2.9</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
<b>C33-C36</b>	<b>3.2</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
<b>C37-C40</b>	<b>3.8</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:02	
<i>Surrogate: p-Terphenyl</i>	<i>63.7 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	07/01/20 12:02	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,1,1-Trichloroethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,1,2,2-Tetrachloroethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,1,2-Trichloroethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,1-Dichloroethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,1-Dichloroethene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,1-Dichloropropene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,2,3-Trichloropropane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,2,3-Trichlorobenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,2,4-Trichlorobenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,2,4-Trimethylbenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,2-Dibromo-3-chloropropane	ND	11	1	B0F0588	06/27/2020	06/27/20 01:44	
1,2-Dibromoethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,2-Dichlorobenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,2-Dichloroethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,2-Dichloropropane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,3,5-Trimethylbenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,3-Dichlorobenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,3-Dichloropropane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
1,4-Dichlorobenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-5**

**Lab ID: 2001528-03**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
2-Chlorotoluene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
4-Chlorotoluene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
4-Isopropyltoluene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Benzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Bromobenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Bromochloromethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Bromodichloromethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Bromoform	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Bromomethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Carbon disulfide	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Carbon tetrachloride	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Chlorobenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Chloroethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Chloroform	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Chloromethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
cis-1,2-Dichloroethene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
cis-1,3-Dichloropropene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Di-isopropyl ether	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Dibromochloromethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Dibromomethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Dichlorodifluoromethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Ethyl Acetate	ND	56	1	B0F0588	06/27/2020	06/27/20 01:44	
Ethyl Ether	ND	56	1	B0F0588	06/27/2020	06/27/20 01:44	
Ethyl tert-butyl ether	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Ethylbenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Freon-113	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Hexachlorobutadiene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Isopropylbenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
m,p-Xylene	ND	11	1	B0F0588	06/27/2020	06/27/20 01:44	
Methylene chloride	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
MTBE	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
n-Butylbenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
n-Propylbenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Naphthalene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
o-Xylene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-5**

**Lab ID: 2001528-03**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Styrene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
tert-Amyl methyl ether	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
tert-Butanol	ND	110	1	B0F0588	06/27/2020	06/27/20 01:44	
tert-Butylbenzene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Tetrachloroethene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Toluene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
trans-1,2-Dichloroethene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
trans-1,3-Dichloropropene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Trichloroethene	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Trichlorofluoromethane	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
Vinyl acetate	ND	56	1	B0F0588	06/27/2020	06/27/20 01:44	
Vinyl chloride	ND	5.6	1	B0F0588	06/27/2020	06/27/20 01:44	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>168 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	<i>06/27/20 01:44</i>	<i>S1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	<i>06/27/20 01:44</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>143 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	<i>06/27/20 01:44</i>	<i>S1</i>
<i>Surrogate: Toluene-d8</i>	<i>109 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	<i>06/27/20 01:44</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-12**

**Lab ID: 2001528-04**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.010	1	B0F0645	06/30/2020	06/30/20 15:11	
Arsenic	0.060	0.010	1	B0F0645	06/30/2020	06/30/20 15:11	
Barium	1.2	0.0030	1	B0F0645	06/30/2020	06/30/20 15:11	
Beryllium	0.011	0.0030	1	B0F0645	06/30/2020	06/30/20 15:11	
Cadmium	ND	0.0030	1	B0F0645	06/30/2020	06/30/20 15:11	
Chromium	0.55	0.0030	1	B0F0645	06/30/2020	06/30/20 15:11	
Cobalt	0.11	0.0030	1	B0F0645	06/30/2020	06/30/20 15:11	
Copper	0.20	0.0090	1	B0F0645	06/30/2020	06/30/20 15:11	
Lead	0.14	0.0050	1	B0F0645	06/30/2020	06/30/20 15:11	
Molybdenum	0.071	0.0050	1	B0F0645	06/30/2020	06/30/20 15:11	
Nickel	0.26	0.0050	1	B0F0645	06/30/2020	06/30/20 15:11	
Selenium	0.047	0.010	1	B0F0645	06/30/2020	06/30/20 15:11	
Silver	0.0053	0.0030	1	B0F0645	06/30/2020	06/30/20 15:11	
Thallium	ND	0.015	1	B0F0645	06/30/2020	06/30/20 15:11	
Vanadium	0.75	0.0030	1	B0F0645	06/30/2020	06/30/20 15:11	
Zinc	0.89	0.025	1	B0F0645	06/30/2020	06/30/20 15:11	

### Mercury by AA (Cold Vapor) EPA 7470A

**Analyst: AH**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.20	1	B0F0647	06/30/2020	06/30/20 17:53	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	0.20	1	B0G0001	07/01/2020	07/01/20 10:38	
Surrogate: 4-Bromofluorobenzene	104 %	70 - 130		B0G0001	07/01/2020	07/01/20 10:38	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C22	0.14	0.05	1	B0F0625	06/29/2020	07/01/20 04:20	
C23-C40	0.15	0.05	1	B0F0625	06/29/2020	07/01/20 04:20	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-12**

**Lab ID: 2001528-04**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: <i>p</i> -Terphenyl	76.6 %	32 - 169		B0F0625	06/29/2020	07/01/20 04:20	

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,1,1-Trichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,1,2-Trichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,1-Dichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,1-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,1-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,2,3-Trichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,2,3-Trichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,2,4-Trichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,2,4-Trimethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,2-Dibromoethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,2-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,2-Dichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,2-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,3,5-Trimethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,3-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,3-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
1,4-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
2,2-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
2-Chlorotoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
4-Chlorotoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
4-Isopropyltoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Benzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Bromobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Bromochloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Bromodichloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Bromoform	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Bromomethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-12**

**Lab ID: 2001528-04**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Carbon disulfide	ND	1.0	1	B0F0579	06/26/2020	06/26/20 16:05	
Carbon tetrachloride	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Chlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Chloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Chloroform	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Chloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
cis-1,2-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
cis-1,3-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Di-isopropyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Dibromochloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Dibromomethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Dichlorodifluoromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Ethyl Acetate	ND	10	1	B0F0579	06/26/2020	06/26/20 16:05	
Ethyl Ether	ND	10	1	B0F0579	06/26/2020	06/26/20 16:05	
Ethyl tert-butyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Ethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Freon-113	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Hexachlorobutadiene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Isopropylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
m,p-Xylene	ND	1.0	1	B0F0579	06/26/2020	06/26/20 16:05	
Methylene chloride	ND	1.0	1	B0F0579	06/26/2020	06/26/20 16:05	
MTBE	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
n-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
n-Propylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Naphthalene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
o-Xylene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
sec-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Styrene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
tert-Amyl methyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
tert-Butanol	ND	10	1	B0F0579	06/26/2020	06/26/20 16:05	
tert-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Tetrachloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Toluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
trans-1,2-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
trans-1,3-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Trichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	





## Certificate of Analysis

Wood PLC  
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Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-4-12**

**Lab ID: 2001528-04**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Trichlorofluoromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
Vinyl acetate	ND	10	1	B0F0579	06/26/2020	06/26/20 16:05	
Vinyl chloride	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:05	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>118 %</i>	<i>59 - 158</i>		B0F0579	06/26/2020	<i>06/26/20 16:05</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.5 %</i>	<i>71 - 127</i>		B0F0579	06/26/2020	<i>06/26/20 16:05</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	<i>66 - 147</i>		B0F0579	06/26/2020	<i>06/26/20 16:05</i>	
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>	<i>77 - 138</i>		B0F0579	06/26/2020	<i>06/26/20 16:05</i>	



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**Client Sample ID: ND-DUP**

**Lab ID: 2001528-05**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.010	1	B0F0645	06/30/2020	06/30/20 15:13	
Arsenic	0.13	0.010	1	B0F0645	06/30/2020	06/30/20 15:13	
Barium	1.4	0.0030	1	B0F0645	06/30/2020	06/30/20 15:13	
Beryllium	0.013	0.0030	1	B0F0645	06/30/2020	06/30/20 15:13	
Cadmium	ND	0.0030	1	B0F0645	06/30/2020	06/30/20 15:13	
Chromium	0.63	0.0030	1	B0F0645	06/30/2020	06/30/20 15:13	
Cobalt	0.14	0.0030	1	B0F0645	06/30/2020	06/30/20 15:13	
Copper	0.25	0.0090	1	B0F0645	06/30/2020	06/30/20 15:13	
Lead	0.17	0.0050	1	B0F0645	06/30/2020	06/30/20 15:13	
Molybdenum	0.084	0.0050	1	B0F0645	06/30/2020	06/30/20 15:13	
Nickel	0.31	0.0050	1	B0F0645	06/30/2020	06/30/20 15:13	
Selenium	ND	0.010	1	B0F0645	06/30/2020	06/30/20 15:13	
Silver	0.0057	0.0030	1	B0F0645	06/30/2020	06/30/20 15:13	
Thallium	ND	0.015	1	B0F0645	06/30/2020	06/30/20 15:13	
Vanadium	0.87	0.0030	1	B0F0645	06/30/2020	06/30/20 15:13	
Zinc	1.0	0.025	1	B0F0645	06/30/2020	06/30/20 15:13	

### Mercury by AA (Cold Vapor) EPA 7470A

**Analyst: AH**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.20	1	B0F0647	06/30/2020	06/30/20 17:55	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	0.20	1	B0G0001	07/01/2020	07/01/20 11:05	
Surrogate: 4-Bromofluorobenzene	91.1 %	70 - 130		B0G0001	07/01/2020	07/01/20 11:05	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C22	0.10	0.05	1	B0F0625	06/29/2020	07/01/20 04:35	
C23-C40	0.15	0.05	1	B0F0625	06/29/2020	07/01/20 04:35	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock  
Report To : Jorge Perez  
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**Client Sample ID: ND-DUP**

**Lab ID: 2001528-05**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	67.6 %	32 - 169		B0F0625	06/29/2020	07/01/20 04:35	

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,1,1-Trichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,1,2-Trichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,1-Dichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,1-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,1-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,2,3-Trichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,2,3-Trichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,2,4-Trichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,2,4-Trimethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,2-Dibromoethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,2-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,2-Dichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,2-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,3,5-Trimethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,3-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,3-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
1,4-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
2,2-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
2-Chlorotoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
4-Chlorotoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
4-Isopropyltoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Benzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Bromobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Bromochloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Bromodichloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Bromoform	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Bromomethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-DUP**  
**Lab ID: 2001528-05**

### Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Carbon disulfide	ND	1.0	1	B0F0579	06/26/2020	06/26/20 16:26	
Carbon tetrachloride	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Chlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Chloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Chloroform	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Chloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
cis-1,2-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
cis-1,3-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Di-isopropyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Dibromochloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Dibromomethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Dichlorodifluoromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Ethyl Acetate	ND	10	1	B0F0579	06/26/2020	06/26/20 16:26	
Ethyl Ether	ND	10	1	B0F0579	06/26/2020	06/26/20 16:26	
Ethyl tert-butyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Ethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Freon-113	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Hexachlorobutadiene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Isopropylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
m,p-Xylene	ND	1.0	1	B0F0579	06/26/2020	06/26/20 16:26	
Methylene chloride	ND	1.0	1	B0F0579	06/26/2020	06/26/20 16:26	
MTBE	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
n-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
n-Propylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Naphthalene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
o-Xylene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
sec-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Styrene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
tert-Amyl methyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
tert-Butanol	ND	10	1	B0F0579	06/26/2020	06/26/20 16:26	
tert-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Tetrachloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Toluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
trans-1,2-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
trans-1,3-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Trichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-DUP**  
**Lab ID: 2001528-05**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Trichlorofluoromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
Vinyl acetate	ND	10	1	B0F0579	06/26/2020	06/26/20 16:26	
Vinyl chloride	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>115 %</i>	<i>59 - 158</i>		B0F0579	06/26/2020	<i>06/26/20 16:26</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.3 %</i>	<i>71 - 127</i>		B0F0579	06/26/2020	<i>06/26/20 16:26</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>108 %</i>	<i>66 - 147</i>		B0F0579	06/26/2020	<i>06/26/20 16:26</i>	
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	<i>77 - 138</i>		B0F0579	06/26/2020	<i>06/26/20 16:26</i>	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-5-2.5**

**Lab ID: 2001528-06**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:44	
<b>Arsenic</b>	<b>3.4</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
<b>Barium</b>	<b>83</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
<b>Chromium</b>	<b>16</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
<b>Cobalt</b>	<b>5.3</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
<b>Copper</b>	<b>14</b>	2.0	1	B0G0007	07/01/2020	07/01/20 13:44	
<b>Lead</b>	<b>12</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
<b>Molybdenum</b>	<b>1.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
<b>Nickel</b>	<b>12</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
<b>Vanadium</b>	<b>28</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	
<b>Zinc</b>	<b>48</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:44	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 14:40	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0002	07/01/2020	07/01/20 13:09	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>80.2 %</i>	<i>45 - 149</i>		B0G0002	07/01/2020	07/01/20 13:09	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	50	50	B0F0641	06/29/2020	07/01/20 08:57	
<b>C13-C40 Total</b>	<b>2400</b>	50	50	B0F0641	06/29/2020	07/01/20 08:57	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-5-2.5**

**Lab ID: 2001528-06**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	50	50	B0F0641	06/29/2020	07/01/20 08:57	
C17-C18	ND	50	50	B0F0641	06/29/2020	07/01/20 08:57	
C19-C20	ND	50	50	B0F0641	06/29/2020	07/01/20 08:57	
C21-C22	ND	50	50	B0F0641	06/29/2020	07/01/20 08:57	
C23-C24	ND	50	50	B0F0641	06/29/2020	07/01/20 08:57	
<b>C25-C26</b>	<b>64</b>	50	50	B0F0641	06/29/2020	07/01/20 08:57	
<b>C27-C28</b>	<b>85</b>	50	50	B0F0641	06/29/2020	07/01/20 08:57	
<b>C29-C32</b>	<b>440</b>	50	50	B0F0641	06/29/2020	07/01/20 08:57	
<b>C33-C36</b>	<b>670</b>	50	50	B0F0641	06/29/2020	07/01/20 08:57	
<b>C37-C40</b>	<b>1000</b>	50	50	B0F0641	06/29/2020	07/01/20 08:57	
<i>Surrogate: p-Terphenyl</i>	<i>95.0 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	07/01/20 08:57	

## Polychlorinated Biphenyls by EPA 8082

**Analyst: DP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B0G0163	07/09/2020	07/16/20 12:33	
Aroclor 1221	ND	16	1	B0G0163	07/09/2020	07/16/20 12:33	
Aroclor 1232	ND	16	1	B0G0163	07/09/2020	07/16/20 12:33	
Aroclor 1242	ND	16	1	B0G0163	07/09/2020	07/16/20 12:33	
Aroclor 1248	ND	16	1	B0G0163	07/09/2020	07/16/20 12:33	
Aroclor 1254	ND	16	1	B0G0163	07/09/2020	07/16/20 12:33	
Aroclor 1260	ND	16	1	B0G0163	07/09/2020	07/16/20 12:33	
Aroclor 1262	ND	16	1	B0G0163	07/09/2020	07/16/20 12:33	
Aroclor 1268	ND	16	1	B0G0163	07/09/2020	07/16/20 12:33	
<i>Surrogate: Decachlorobiphenyl</i>	<i>40.1 %</i>	<i>21 - 94</i>		B0G0163	07/09/2020	07/16/20 12:33	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>51.2 %</i>	<i>28 - 95</i>		B0G0163	07/09/2020	07/16/20 12:33	



## Certificate of Analysis

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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-5-2.5**

**Lab ID: 2001528-06**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,1,1-Trichloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,1,2,2-Tetrachloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,1,2-Trichloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,1-Dichloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,1-Dichloroethene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,1-Dichloropropene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,2,3-Trichloropropane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,2,3-Trichlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,2,4-Trichlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,2,4-Trimethylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,2-Dibromo-3-chloropropane	ND	7.8	1	B0F0588	06/27/2020	06/27/20 02:06	
1,2-Dibromoethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,2-Dichlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,2-Dichloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,2-Dichloropropane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,3,5-Trimethylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,3-Dichlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,3-Dichloropropane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
1,4-Dichlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
2,2-Dichloropropane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
2-Chlorotoluene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
4-Chlorotoluene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
4-Isopropyltoluene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Benzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Bromobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Bromochloromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Bromodichloromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Bromoform	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Bromomethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Carbon disulfide	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Carbon tetrachloride	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Chlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Chloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Chloroform	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Chloromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-5-2.5**

**Lab ID: 2001528-06**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
cis-1,3-Dichloropropene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Di-isopropyl ether	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Dibromochloromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Dibromomethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Dichlorodifluoromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Ethyl Acetate	ND	39	1	B0F0588	06/27/2020	06/27/20 02:06	
Ethyl Ether	ND	39	1	B0F0588	06/27/2020	06/27/20 02:06	
Ethyl tert-butyl ether	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Ethylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Freon-113	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Hexachlorobutadiene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Isopropylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
m,p-Xylene	ND	7.8	1	B0F0588	06/27/2020	06/27/20 02:06	
Methylene chloride	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
MTBE	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
n-Butylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
n-Propylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Naphthalene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
o-Xylene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
sec-Butylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Styrene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
tert-Amyl methyl ether	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
tert-Butanol	ND	78	1	B0F0588	06/27/2020	06/27/20 02:06	
tert-Butylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Tetrachloroethene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Toluene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
trans-1,2-Dichloroethene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
trans-1,3-Dichloropropene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Trichloroethene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Trichlorofluoromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
Vinyl acetate	ND	39	1	B0F0588	06/27/2020	06/27/20 02:06	
Vinyl chloride	ND	3.9	1	B0F0588	06/27/2020	06/27/20 02:06	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>160 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 02:06	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>108 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 02:06	
<i>Surrogate: Dibromofluoromethane</i>	<i>131 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 02:06	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-5-2.5**

**Lab ID: 2001528-06**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 02:06	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-5-5**  
**Lab ID: 2001528-07**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:45	
<b>Arsenic</b>	<b>4.5</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
<b>Barium</b>	<b>130</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
<b>Chromium</b>	<b>20</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
<b>Cobalt</b>	<b>8.3</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
<b>Copper</b>	<b>20</b>	2.0	1	B0G0007	07/01/2020	07/01/20 13:45	
<b>Lead</b>	<b>7.8</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
<b>Molybdenum</b>	<b>1.2</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
<b>Nickel</b>	<b>15</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
<b>Vanadium</b>	<b>37</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	
<b>Zinc</b>	<b>62</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:45	

### Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 14:43	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0002	07/01/2020	07/01/20 13:33	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>78.8 %</i>	<i>45 - 149</i>		B0G0002	07/01/2020	07/01/20 13:33	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
<b>C13-C40 Total</b>	<b>140</b>	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-5-5**

**Lab ID: 2001528-07**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
C17-C18	ND	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
C19-C20	ND	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
C21-C22	ND	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
<b>C23-C24</b>	<b>2.5</b>	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
<b>C25-C26</b>	<b>4.5</b>	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
<b>C27-C28</b>	<b>6.4</b>	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
<b>C29-C32</b>	<b>30</b>	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
<b>C33-C36</b>	<b>42</b>	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
<b>C37-C40</b>	<b>53</b>	2.0	2	B0F0641	06/29/2020	07/01/20 13:48	
<i>Surrogate: p-Terphenyl</i>	<i>40.8 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	07/01/20 13:48	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,1,1-Trichloroethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,1,2,2-Tetrachloroethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,1,2-Trichloroethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,1-Dichloroethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,1-Dichloroethene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,1-Dichloropropene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,2,3-Trichloropropane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,2,3-Trichlorobenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,2,4-Trichlorobenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,2,4-Trimethylbenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,2-Dibromo-3-chloropropane	ND	11	1	B0F0588	06/27/2020	06/27/20 02:27	
1,2-Dibromoethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,2-Dichlorobenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,2-Dichloroethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,2-Dichloropropane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,3,5-Trimethylbenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,3-Dichlorobenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,3-Dichloropropane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
1,4-Dichlorobenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-5-5**

**Lab ID: 2001528-07**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
2-Chlorotoluene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
4-Chlorotoluene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
4-Isopropyltoluene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Benzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Bromobenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Bromochloromethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Bromodichloromethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Bromoform	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Bromomethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Carbon disulfide	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Carbon tetrachloride	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Chlorobenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Chloroethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Chloroform	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Chloromethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
cis-1,2-Dichloroethene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
cis-1,3-Dichloropropene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Di-isopropyl ether	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Dibromochloromethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Dibromomethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Dichlorodifluoromethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Ethyl Acetate	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Ethyl Ether	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Ethyl tert-butyl ether	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Ethylbenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Freon-113	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Hexachlorobutadiene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Isopropylbenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
m,p-Xylene	ND	11	1	B0F0588	06/27/2020	06/27/20 02:27	
Methylene chloride	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
MTBE	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
n-Butylbenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
n-Propylbenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Naphthalene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
o-Xylene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-5-5**

**Lab ID: 2001528-07**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Styrene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
tert-Amyl methyl ether	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
tert-Butanol	ND	110	1	B0F0588	06/27/2020	06/27/20 02:27	
tert-Butylbenzene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Tetrachloroethene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Toluene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
trans-1,2-Dichloroethene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
trans-1,3-Dichloropropene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Trichloroethene	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Trichlorofluoromethane	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
Vinyl acetate	ND	54	1	B0F0588	06/27/2020	06/27/20 02:27	
Vinyl chloride	ND	5.4	1	B0F0588	06/27/2020	06/27/20 02:27	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>146 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 02:27	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 02:27	
<i>Surrogate: Dibromofluoromethane</i>	<i>122 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 02:27	
<i>Surrogate: Toluene-d8</i>	<i>107 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 02:27	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-2.5**

**Lab ID: 2001528-08**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:46	
<b>Arsenic</b>	<b>2.0</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
<b>Barium</b>	<b>89</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
<b>Chromium</b>	<b>15</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
<b>Cobalt</b>	<b>5.8</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
<b>Copper</b>	<b>15</b>	2.0	1	B0G0007	07/01/2020	07/01/20 13:46	
<b>Lead</b>	<b>31</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
Molybdenum	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
<b>Nickel</b>	<b>12</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
<b>Vanadium</b>	<b>25</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	
<b>Zinc</b>	<b>53</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:46	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 14:45	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0002	07/01/2020	07/01/20 13:56	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>79.4 %</i>	<i>45 - 149</i>		B0G0002	07/01/2020	07/01/20 13:56	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	10	10	B0F0641	06/29/2020	07/01/20 14:58	
<b>C13-C40 Total</b>	<b>760</b>	10	10	B0F0641	06/29/2020	07/01/20 14:58	



### Certificate of Analysis

Wood PLC  
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Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-2.5**

**Lab ID: 2001528-08**

#### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	10	10	B0F0641	06/29/2020	07/01/20 14:58	
C17-C18	ND	10	10	B0F0641	06/29/2020	07/01/20 14:58	
C19-C20	ND	10	10	B0F0641	06/29/2020	07/01/20 14:58	
C21-C22	ND	10	10	B0F0641	06/29/2020	07/01/20 14:58	
<b>C23-C24</b>	<b>13</b>	10	10	B0F0641	06/29/2020	07/01/20 14:58	
<b>C25-C26</b>	<b>25</b>	10	10	B0F0641	06/29/2020	07/01/20 14:58	
<b>C27-C28</b>	<b>34</b>	10	10	B0F0641	06/29/2020	07/01/20 14:58	
<b>C29-C32</b>	<b>150</b>	10	10	B0F0641	06/29/2020	07/01/20 14:58	
<b>C33-C36</b>	<b>220</b>	10	10	B0F0641	06/29/2020	07/01/20 14:58	
<b>C37-C40</b>	<b>290</b>	10	10	B0F0641	06/29/2020	07/01/20 14:58	
<i>Surrogate: p-Terphenyl</i>	<i>82.0 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	<i>07/01/20 14:58</i>	

#### Polychlorinated Biphenyls by EPA 8082

**Analyst: DP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B0G0163	07/09/2020	07/16/20 12:52	
Aroclor 1221	ND	16	1	B0G0163	07/09/2020	07/16/20 12:52	
Aroclor 1232	ND	16	1	B0G0163	07/09/2020	07/16/20 12:52	
Aroclor 1242	ND	16	1	B0G0163	07/09/2020	07/16/20 12:52	
Aroclor 1248	ND	16	1	B0G0163	07/09/2020	07/16/20 12:52	
Aroclor 1254	ND	16	1	B0G0163	07/09/2020	07/16/20 12:52	
Aroclor 1260	ND	16	1	B0G0163	07/09/2020	07/16/20 12:52	
Aroclor 1262	ND	16	1	B0G0163	07/09/2020	07/16/20 12:52	
Aroclor 1268	ND	16	1	B0G0163	07/09/2020	07/16/20 12:52	
<i>Surrogate: Decachlorobiphenyl</i>	<i>43.9 %</i>	<i>21 - 94</i>		B0G0163	07/09/2020	<i>07/16/20 12:52</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>77.7 %</i>	<i>28 - 95</i>		B0G0163	07/09/2020	<i>07/16/20 12:52</i>	





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-2.5**

**Lab ID: 2001528-08**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,1,1-Trichloroethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,1,2,2-Tetrachloroethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,1,2-Trichloroethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,1-Dichloroethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,1-Dichloroethene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,1-Dichloropropene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,2,3-Trichloropropane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,2,3-Trichlorobenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,2,4-Trichlorobenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,2,4-Trimethylbenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,2-Dibromo-3-chloropropane	ND	9.7	1	B0F0588	06/27/2020	06/27/20 02:49	
1,2-Dibromoethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,2-Dichlorobenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,2-Dichloroethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,2-Dichloropropane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,3,5-Trimethylbenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,3-Dichlorobenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,3-Dichloropropane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
1,4-Dichlorobenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
2,2-Dichloropropane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
2-Chlorotoluene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
4-Chlorotoluene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
4-Isopropyltoluene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Benzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Bromobenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Bromochloromethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Bromodichloromethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Bromoform	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Bromomethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Carbon disulfide	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Carbon tetrachloride	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Chlorobenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Chloroethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Chloroform	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Chloromethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-2.5**

**Lab ID: 2001528-08**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
cis-1,3-Dichloropropene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Di-isopropyl ether	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Dibromochloromethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Dibromomethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Dichlorodifluoromethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Ethyl Acetate	ND	49	1	B0F0588	06/27/2020	06/27/20 02:49	
Ethyl Ether	ND	49	1	B0F0588	06/27/2020	06/27/20 02:49	
Ethyl tert-butyl ether	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Ethylbenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Freon-113	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Hexachlorobutadiene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Isopropylbenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
m,p-Xylene	ND	9.7	1	B0F0588	06/27/2020	06/27/20 02:49	
Methylene chloride	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
MTBE	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
n-Butylbenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
n-Propylbenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Naphthalene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
o-Xylene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
sec-Butylbenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Styrene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
tert-Amyl methyl ether	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
tert-Butanol	ND	97	1	B0F0588	06/27/2020	06/27/20 02:49	
tert-Butylbenzene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Tetrachloroethene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Toluene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
trans-1,2-Dichloroethene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
trans-1,3-Dichloropropene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Trichloroethene	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Trichlorofluoromethane	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
Vinyl acetate	ND	49	1	B0F0588	06/27/2020	06/27/20 02:49	
Vinyl chloride	ND	4.9	1	B0F0588	06/27/2020	06/27/20 02:49	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>154 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 02:49	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.7 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 02:49	
<i>Surrogate: Dibromofluoromethane</i>	<i>126 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 02:49	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-2.5**

**Lab ID: 2001528-08**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>109 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 02:49	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-5.5**

**Lab ID: 2001528-09**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:48	
<b>Arsenic</b>	<b>3.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
<b>Barium</b>	<b>86</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
<b>Chromium</b>	<b>14</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
<b>Cobalt</b>	<b>5.2</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
<b>Copper</b>	<b>21</b>	2.0	1	B0G0007	07/01/2020	07/01/20 13:48	
<b>Lead</b>	<b>22</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
<b>Molybdenum</b>	<b>1.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
<b>Nickel</b>	<b>16</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
<b>Vanadium</b>	<b>24</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	
<b>Zinc</b>	<b>71</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:48	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 14:52	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 18:59	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>72.5 %</i>	<i>45 - 149</i>		B0G0018	07/01/2020	07/01/20 18:59	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	20	20	B0F0641	06/29/2020	07/01/20 07:47	
<b>C13-C40 Total</b>	<b>1200</b>	20	20	B0F0641	06/29/2020	07/01/20 07:47	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-5.5**

**Lab ID: 2001528-09**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	20	20	B0F0641	06/29/2020	07/01/20 07:47	
C17-C18	ND	20	20	B0F0641	06/29/2020	07/01/20 07:47	
C19-C20	ND	20	20	B0F0641	06/29/2020	07/01/20 07:47	
C21-C22	ND	20	20	B0F0641	06/29/2020	07/01/20 07:47	
C23-C24	ND	20	20	B0F0641	06/29/2020	07/01/20 07:47	
<b>C25-C26</b>	<b>35</b>	20	20	B0F0641	06/29/2020	07/01/20 07:47	
<b>C27-C28</b>	<b>48</b>	20	20	B0F0641	06/29/2020	07/01/20 07:47	
<b>C29-C32</b>	<b>210</b>	20	20	B0F0641	06/29/2020	07/01/20 07:47	
<b>C33-C36</b>	<b>350</b>	20	20	B0F0641	06/29/2020	07/01/20 07:47	
<b>C37-C40</b>	<b>440</b>	20	20	B0F0641	06/29/2020	07/01/20 07:47	
<i>Surrogate: p-Terphenyl</i>	<i>65.7 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	07/01/20 07:47	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,1,1-Trichloroethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,1,2,2-Tetrachloroethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,1,2-Trichloroethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,1-Dichloroethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,1-Dichloroethene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,1-Dichloropropene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,2,3-Trichloropropane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,2,3-Trichlorobenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,2,4-Trichlorobenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,2,4-Trimethylbenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,2-Dibromo-3-chloropropane	ND	8.3	1	B0F0588	06/27/2020	06/27/20 03:10	
1,2-Dibromoethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,2-Dichlorobenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,2-Dichloroethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,2-Dichloropropane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,3,5-Trimethylbenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,3-Dichlorobenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,3-Dichloropropane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
1,4-Dichlorobenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-5.5**

**Lab ID: 2001528-09**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
2-Chlorotoluene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
4-Chlorotoluene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
4-Isopropyltoluene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Benzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Bromobenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Bromochloromethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Bromodichloromethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Bromoform	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Bromomethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Carbon disulfide	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Carbon tetrachloride	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Chlorobenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Chloroethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Chloroform	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Chloromethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
cis-1,2-Dichloroethene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
cis-1,3-Dichloropropene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Di-isopropyl ether	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Dibromochloromethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Dibromomethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Dichlorodifluoromethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Ethyl Acetate	ND	42	1	B0F0588	06/27/2020	06/27/20 03:10	
Ethyl Ether	ND	42	1	B0F0588	06/27/2020	06/27/20 03:10	
Ethyl tert-butyl ether	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Ethylbenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Freon-113	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Hexachlorobutadiene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Isopropylbenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
m,p-Xylene	ND	8.3	1	B0F0588	06/27/2020	06/27/20 03:10	
Methylene chloride	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
MTBE	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
n-Butylbenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
n-Propylbenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Naphthalene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
o-Xylene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-5.5**

**Lab ID: 2001528-09**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Styrene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
tert-Amyl methyl ether	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
tert-Butanol	ND	83	1	B0F0588	06/27/2020	06/27/20 03:10	
tert-Butylbenzene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Tetrachloroethene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Toluene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
trans-1,2-Dichloroethene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
trans-1,3-Dichloropropene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Trichloroethene	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Trichlorofluoromethane	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
Vinyl acetate	ND	42	1	B0F0588	06/27/2020	06/27/20 03:10	
Vinyl chloride	ND	4.2	1	B0F0588	06/27/2020	06/27/20 03:10	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>148 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	<i>06/27/20 03:10</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	<i>06/27/20 03:10</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>127 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	<i>06/27/20 03:10</i>	
<i>Surrogate: Toluene-d8</i>	<i>107 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	<i>06/27/20 03:10</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-15**

**Lab ID: 2001528-10**

**Title 22 Metals by ICP-AES EPA 6010B**

**Analyst: TA**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.010	1	B0F0645	06/30/2020	06/30/20 15:17	
Arsenic	0.12	0.010	1	B0F0645	06/30/2020	06/30/20 15:17	
Barium	3.2	0.0030	1	B0F0645	06/30/2020	06/30/20 15:17	
Beryllium	0.020	0.0030	1	B0F0645	06/30/2020	06/30/20 15:17	
Cadmium	ND	0.0030	1	B0F0645	06/30/2020	06/30/20 15:17	
Chromium	0.94	0.0030	1	B0F0645	06/30/2020	06/30/20 15:17	
Cobalt	0.24	0.0030	1	B0F0645	06/30/2020	06/30/20 15:17	
Copper	0.54	0.0090	1	B0F0645	06/30/2020	06/30/20 15:17	
Lead	0.31	0.0050	1	B0F0645	06/30/2020	06/30/20 15:17	
Molybdenum	0.14	0.0050	1	B0F0645	06/30/2020	06/30/20 15:17	
Nickel	0.49	0.0050	1	B0F0645	06/30/2020	06/30/20 15:17	
Selenium	0.016	0.010	1	B0F0645	06/30/2020	06/30/20 15:17	
Silver	0.011	0.0030	1	B0F0645	06/30/2020	06/30/20 15:17	
Thallium	ND	0.015	1	B0F0645	06/30/2020	06/30/20 15:17	
Vanadium	1.1	0.0030	1	B0F0645	06/30/2020	06/30/20 15:17	
Zinc	1.9	0.025	1	B0F0645	06/30/2020	06/30/20 15:17	

**Mercury by AA (Cold Vapor) EPA 7470A**

**Analyst: AH**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.32	0.20	1	B0F0647	06/30/2020	06/30/20 17:58	

**Gasoline Range Organics by EPA 8015B (Modified)**

**Analyst: Kur**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	0.20	1	B0G0001	07/01/2020	07/01/20 12:34	
Surrogate: 4-Bromofluorobenzene	90.7 %	70 - 130		B0G0001	07/01/2020	07/01/20 12:34	

**Hydrocarbon Chain Distribution by EPA 8015B (Modified)**

**Analyst: VL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C22	0.18	0.05	1	B0F0625	06/29/2020	07/01/20 05:22	
C23-C40	0.19	0.05	1	B0F0625	06/29/2020	07/01/20 05:22	





# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-15**

**Lab ID: 2001528-10**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	63.9 %	32 - 169		B0F0625	06/29/2020	07/01/20 05:22	

## Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,1,1-Trichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,1,2-Trichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,1-Dichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,1-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,1-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,2,3-Trichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,2,3-Trichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,2,4-Trichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,2,4-Trimethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,2-Dibromoethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,2-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,2-Dichloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,2-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,3,5-Trimethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,3-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,3-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
1,4-Dichlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
2,2-Dichloropropane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
2-Chlorotoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
4-Chlorotoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
4-Isopropyltoluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Benzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Bromobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Bromochloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Bromodichloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Bromoform	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Bromomethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-15**

**Lab ID: 2001528-10**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Carbon disulfide	ND	1.0	1	B0F0579	06/26/2020	06/26/20 16:47	
Carbon tetrachloride	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Chlorobenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Chloroethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Chloroform	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Chloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
cis-1,2-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
cis-1,3-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Di-isopropyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Dibromochloromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Dibromomethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Dichlorodifluoromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Ethyl Acetate	ND	10	1	B0F0579	06/26/2020	06/26/20 16:47	
Ethyl Ether	ND	10	1	B0F0579	06/26/2020	06/26/20 16:47	
Ethyl tert-butyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Ethylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Freon-113	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Hexachlorobutadiene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Isopropylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
m,p-Xylene	ND	1.0	1	B0F0579	06/26/2020	06/26/20 16:47	
Methylene chloride	ND	1.0	1	B0F0579	06/26/2020	06/26/20 16:47	
MTBE	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
n-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
n-Propylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Naphthalene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
o-Xylene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
sec-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Styrene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
tert-Amyl methyl ether	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
tert-Butanol	ND	10	1	B0F0579	06/26/2020	06/26/20 16:47	
tert-Butylbenzene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Tetrachloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Toluene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
trans-1,2-Dichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
trans-1,3-Dichloropropene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Trichloroethene	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-6-15**

**Lab ID: 2001528-10**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Trichlorofluoromethane	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
Vinyl acetate	ND	10	1	B0F0579	06/26/2020	06/26/20 16:47	
Vinyl chloride	ND	0.50	1	B0F0579	06/26/2020	06/26/20 16:47	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>120 %</i>	<i>59 - 158</i>		B0F0579	06/26/2020	<i>06/26/20 16:47</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93.7 %</i>	<i>71 - 127</i>		B0F0579	06/26/2020	<i>06/26/20 16:47</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>109 %</i>	<i>66 - 147</i>		B0F0579	06/26/2020	<i>06/26/20 16:47</i>	
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>	<i>77 - 138</i>		B0F0579	06/26/2020	<i>06/26/20 16:47</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-7-2.5**

**Lab ID: 2001528-11**

**Title 22 Metals by ICP-AES EPA 6010B**

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:52	
<b>Arsenic</b>	<b>3.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
<b>Barium</b>	<b>76</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
<b>Chromium</b>	<b>16</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
<b>Cobalt</b>	<b>4.8</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
<b>Copper</b>	<b>14</b>	2.0	1	B0G0007	07/01/2020	07/01/20 13:52	
<b>Lead</b>	<b>23</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
<b>Molybdenum</b>	<b>1.4</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
<b>Nickel</b>	<b>13</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
<b>Vanadium</b>	<b>26</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	
<b>Zinc</b>	<b>47</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:52	

**Mercury by AA (Cold Vapor) EPA 7471A**

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 14:55	

**Gasoline Range Organics by EPA 8015B (Modified)**

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 19:22	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>72.1 %</i>	<i>45 - 149</i>		B0G0018	07/01/2020	07/01/20 19:22	

**Hydrocarbon Chain Distribution by EPA 8015B (Modified)**

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	50	50	B0F0641	06/29/2020	07/01/20 08:39	
<b>C13-C40 Total</b>	<b>2600</b>	50	50	B0F0641	06/29/2020	07/01/20 08:39	



### Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-7-2.5**

**Lab ID: 2001528-11**

**Hydrocarbon Chain Distribution by EPA 8015B (Modified)**

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	50	50	B0F0641	06/29/2020	07/01/20 08:39	
C17-C18	56	50	50	B0F0641	06/29/2020	07/01/20 08:39	
C19-C20	61	50	50	B0F0641	06/29/2020	07/01/20 08:39	
C21-C22	61	50	50	B0F0641	06/29/2020	07/01/20 08:39	
C23-C24	56	50	50	B0F0641	06/29/2020	07/01/20 08:39	
C25-C26	92	50	50	B0F0641	06/29/2020	07/01/20 08:39	
C27-C28	120	50	50	B0F0641	06/29/2020	07/01/20 08:39	
C29-C32	460	50	50	B0F0641	06/29/2020	07/01/20 08:39	
C33-C36	710	50	50	B0F0641	06/29/2020	07/01/20 08:39	
C37-C40	1000	50	50	B0F0641	06/29/2020	07/01/20 08:39	
<i>Surrogate: p-Terphenyl</i>	74.4 %	15 - 110		B0F0641	06/29/2020	07/01/20 08:39	

**Polychlorinated Biphenyls by EPA 8082**

**Analyst: DP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B0G0163	07/09/2020	07/16/20 13:12	
Aroclor 1221	ND	16	1	B0G0163	07/09/2020	07/16/20 13:12	
Aroclor 1232	ND	16	1	B0G0163	07/09/2020	07/16/20 13:12	
Aroclor 1242	ND	16	1	B0G0163	07/09/2020	07/16/20 13:12	
Aroclor 1248	ND	16	1	B0G0163	07/09/2020	07/16/20 13:12	
Aroclor 1254	ND	16	1	B0G0163	07/09/2020	07/16/20 13:12	
Aroclor 1260	ND	16	1	B0G0163	07/09/2020	07/16/20 13:12	
Aroclor 1262	ND	16	1	B0G0163	07/09/2020	07/16/20 13:12	
Aroclor 1268	ND	16	1	B0G0163	07/09/2020	07/16/20 13:12	
<i>Surrogate: Decachlorobiphenyl</i>	36.7 %	21 - 94		B0G0163	07/09/2020	07/16/20 13:12	
<i>Surrogate: Tetrachloro-m-xylene</i>	62.7 %	28 - 95		B0G0163	07/09/2020	07/16/20 13:12	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-7-2.5**

**Lab ID: 2001528-11**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,1,1-Trichloroethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,1,2,2-Tetrachloroethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,1,2-Trichloroethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,1-Dichloroethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,1-Dichloroethene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,1-Dichloropropene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,2,3-Trichloropropane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,2,3-Trichlorobenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,2,4-Trichlorobenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,2,4-Trimethylbenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,2-Dibromo-3-chloropropane	ND	11	1	B0F0588	06/27/2020	06/27/20 03:32	
1,2-Dibromoethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,2-Dichlorobenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,2-Dichloroethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,2-Dichloropropane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,3,5-Trimethylbenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,3-Dichlorobenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,3-Dichloropropane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
1,4-Dichlorobenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
2,2-Dichloropropane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
2-Chlorotoluene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
4-Chlorotoluene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
4-Isopropyltoluene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Benzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Bromobenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Bromochloromethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Bromodichloromethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Bromoform	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Bromomethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Carbon disulfide	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Carbon tetrachloride	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Chlorobenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Chloroethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Chloroform	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Chloromethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-7-2.5**

**Lab ID: 2001528-11**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
cis-1,3-Dichloropropene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Di-isopropyl ether	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Dibromochloromethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Dibromomethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Dichlorodifluoromethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Ethyl Acetate	ND	55	1	B0F0588	06/27/2020	06/27/20 03:32	
Ethyl Ether	ND	55	1	B0F0588	06/27/2020	06/27/20 03:32	
Ethyl tert-butyl ether	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Ethylbenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Freon-113	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Hexachlorobutadiene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Isopropylbenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
m,p-Xylene	ND	11	1	B0F0588	06/27/2020	06/27/20 03:32	
Methylene chloride	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
MTBE	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
n-Butylbenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
n-Propylbenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Naphthalene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
o-Xylene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
sec-Butylbenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Styrene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
tert-Amyl methyl ether	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
tert-Butanol	ND	110	1	B0F0588	06/27/2020	06/27/20 03:32	
tert-Butylbenzene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Tetrachloroethene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Toluene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
trans-1,2-Dichloroethene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
trans-1,3-Dichloropropene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Trichloroethene	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Trichlorofluoromethane	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
Vinyl acetate	ND	55	1	B0F0588	06/27/2020	06/27/20 03:32	
Vinyl chloride	ND	5.5	1	B0F0588	06/27/2020	06/27/20 03:32	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>161 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 03:32	S1
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>105 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 03:32	
<i>Surrogate: Dibromofluoromethane</i>	<i>127 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 03:32	



### Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-7-2.5**

**Lab ID: 2001528-11**

**Volatile Organic Compounds by EPA 5035 / EPA 8260B**

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>110 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 03:32	

**Semivolatile Organic Compounds by EPA 8270/SIM**

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Acenaphthene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Acenaphthylene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Anthracene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Benzo(a)anthracene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Benzo(a)pyrene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Benzo(b)fluoranthene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Benzo(g,h,i)perylene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Benzo(k)fluoranthene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Chrysene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Dibenz(a,h)anthracene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Fluoranthene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Fluorene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Indeno(1,2,3-cd)pyrene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Naphthalene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Phenanthrene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
Pyrene	ND	100	20	B0G0164	07/09/2020	07/13/20 14:23	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>12 - 125</i>		B0G0164	07/09/2020	07/13/20 14:23	S4
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>	<i>14 - 139</i>		B0G0164	07/09/2020	07/13/20 14:23	S4
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>	<i>8 - 155</i>		B0G0164	07/09/2020	07/13/20 14:23	S4
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>	<i>16 - 152</i>		B0G0164	07/09/2020	07/13/20 14:23	S4





# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-7-5.5**

**Lab ID: 2001528-12**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Arsenic	3.1	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Barium	100	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Chromium	25	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Cobalt	5.6	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Copper	31	2.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Lead	34	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Molybdenum	1.4	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Nickel	16	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Vanadium	29	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	
Zinc	76	1.0	1	B0G0007	07/01/2020	07/01/20 13:54	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.19	0.10	1	B0G0008	07/01/2020	07/01/20 14:57	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 19:45	
Surrogate: 4-Bromofluorobenzene	72.7 %	45 - 149		B0G0018	07/01/2020	07/01/20 19:45	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	20	20	B0F0641	06/29/2020	07/01/20 08:04	
C13-C40 Total	1400	20	20	B0F0641	06/29/2020	07/01/20 08:04	



# Certificate of Analysis

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Project Number : New Dock  
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Reported : 07/16/2020

**Client Sample ID: ND-7-5.5**

**Lab ID: 2001528-12**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	20	20	B0F0641	06/29/2020	07/01/20 08:04	
C17-C18	ND	20	20	B0F0641	06/29/2020	07/01/20 08:04	
C19-C20	ND	20	20	B0F0641	06/29/2020	07/01/20 08:04	
C21-C22	ND	20	20	B0F0641	06/29/2020	07/01/20 08:04	
<b>C23-C24</b>	<b>23</b>	20	20	B0F0641	06/29/2020	07/01/20 08:04	
<b>C25-C26</b>	<b>49</b>	20	20	B0F0641	06/29/2020	07/01/20 08:04	
<b>C27-C28</b>	<b>59</b>	20	20	B0F0641	06/29/2020	07/01/20 08:04	
<b>C29-C32</b>	<b>270</b>	20	20	B0F0641	06/29/2020	07/01/20 08:04	
<b>C33-C36</b>	<b>390</b>	20	20	B0F0641	06/29/2020	07/01/20 08:04	
<b>C37-C40</b>	<b>510</b>	20	20	B0F0641	06/29/2020	07/01/20 08:04	
<i>Surrogate: p-Terphenyl</i>	<i>84.5 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	07/01/20 08:04	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,1,1-Trichloroethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,1,2,2-Tetrachloroethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,1,2-Trichloroethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,1-Dichloroethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,1-Dichloroethene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,1-Dichloropropene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,2,3-Trichloropropane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,2,3-Trichlorobenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,2,4-Trichlorobenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,2,4-Trimethylbenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,2-Dibromo-3-chloropropane	ND	9.4	1	B0F0588	06/27/2020	06/27/20 03:53	
1,2-Dibromoethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,2-Dichlorobenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,2-Dichloroethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,2-Dichloropropane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,3,5-Trimethylbenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,3-Dichlorobenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,3-Dichloropropane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
1,4-Dichlorobenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock  
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Reported : 07/16/2020

**Client Sample ID: ND-7-5.5**

**Lab ID: 2001528-12**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
2-Chlorotoluene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
4-Chlorotoluene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
4-Isopropyltoluene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Benzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Bromobenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Bromochloromethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Bromodichloromethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Bromoform	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Bromomethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Carbon disulfide	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Carbon tetrachloride	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Chlorobenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Chloroethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Chloroform	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Chloromethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
cis-1,2-Dichloroethene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
cis-1,3-Dichloropropene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Di-isopropyl ether	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Dibromochloromethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Dibromomethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Dichlorodifluoromethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Ethyl Acetate	ND	47	1	B0F0588	06/27/2020	06/27/20 03:53	
Ethyl Ether	ND	47	1	B0F0588	06/27/2020	06/27/20 03:53	
Ethyl tert-butyl ether	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Ethylbenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Freon-113	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Hexachlorobutadiene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Isopropylbenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
m,p-Xylene	ND	9.4	1	B0F0588	06/27/2020	06/27/20 03:53	
Methylene chloride	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
MTBE	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
n-Butylbenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
n-Propylbenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Naphthalene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
o-Xylene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-7-5.5**

**Lab ID: 2001528-12**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Styrene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
tert-Amyl methyl ether	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
tert-Butanol	ND	94	1	B0F0588	06/27/2020	06/27/20 03:53	
tert-Butylbenzene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Tetrachloroethene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Toluene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
trans-1,2-Dichloroethene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
trans-1,3-Dichloropropene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Trichloroethene	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Trichlorofluoromethane	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
Vinyl acetate	ND	47	1	B0F0588	06/27/2020	06/27/20 03:53	
Vinyl chloride	ND	4.7	1	B0F0588	06/27/2020	06/27/20 03:53	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>148 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	<i>06/27/20 03:53</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.5 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	<i>06/27/20 03:53</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>120 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	<i>06/27/20 03:53</i>	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	<i>06/27/20 03:53</i>	



# Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-8-3**  
**Lab ID: 2001528-13**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:55	
<b>Arsenic</b>	<b>4.8</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
<b>Barium</b>	<b>76</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
<b>Chromium</b>	<b>16</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
<b>Cobalt</b>	<b>5.2</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
<b>Copper</b>	<b>13</b>	2.0	1	B0G0007	07/01/2020	07/01/20 13:55	
<b>Lead</b>	<b>7.4</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
Molybdenum	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
<b>Nickel</b>	<b>13</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
<b>Vanadium</b>	<b>26</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	
<b>Zinc</b>	<b>34</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:55	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 15:00	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 20:08	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>73.1 %</i>	<i>45 - 149</i>		B0G0018	07/01/2020	07/01/20 20:08	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	50	50	B0F0641	06/29/2020	07/01/20 08:22	
<b>C13-C40 Total</b>	<b>3000</b>	50	50	B0F0641	06/29/2020	07/01/20 08:22	



## Certificate of Analysis

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Project Number : New Dock  
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Reported : 07/16/2020

**Client Sample ID: ND-8-3**

**Lab ID: 2001528-13**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	50	50	B0F0641	06/29/2020	07/01/20 08:22	
C17-C18	ND	50	50	B0F0641	06/29/2020	07/01/20 08:22	
C19-C20	ND	50	50	B0F0641	06/29/2020	07/01/20 08:22	
C21-C22	ND	50	50	B0F0641	06/29/2020	07/01/20 08:22	
C23-C24	ND	50	50	B0F0641	06/29/2020	07/01/20 08:22	
<b>C25-C26</b>	<b>81</b>	50	50	B0F0641	06/29/2020	07/01/20 08:22	
<b>C27-C28</b>	<b>120</b>	50	50	B0F0641	06/29/2020	07/01/20 08:22	
<b>C29-C32</b>	<b>610</b>	50	50	B0F0641	06/29/2020	07/01/20 08:22	
<b>C33-C36</b>	<b>900</b>	50	50	B0F0641	06/29/2020	07/01/20 08:22	
<b>C37-C40</b>	<b>1200</b>	50	50	B0F0641	06/29/2020	07/01/20 08:22	
<i>Surrogate: p-Terphenyl</i>	<i>67.5 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	07/01/20 08:22	

### Polychlorinated Biphenyls by EPA 8082

**Analyst: DP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B0G0163	07/09/2020	07/16/20 13:31	
Aroclor 1221	ND	16	1	B0G0163	07/09/2020	07/16/20 13:31	
Aroclor 1232	ND	16	1	B0G0163	07/09/2020	07/16/20 13:31	
Aroclor 1242	ND	16	1	B0G0163	07/09/2020	07/16/20 13:31	
Aroclor 1248	ND	16	1	B0G0163	07/09/2020	07/16/20 13:31	
Aroclor 1254	ND	16	1	B0G0163	07/09/2020	07/16/20 13:31	
Aroclor 1260	ND	16	1	B0G0163	07/09/2020	07/16/20 13:31	
Aroclor 1262	ND	16	1	B0G0163	07/09/2020	07/16/20 13:31	
Aroclor 1268	ND	16	1	B0G0163	07/09/2020	07/16/20 13:31	
<i>Surrogate: Decachlorobiphenyl</i>	<i>31.9 %</i>	<i>21 - 94</i>		B0G0163	07/09/2020	07/16/20 13:31	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>47.1 %</i>	<i>28 - 95</i>		B0G0163	07/09/2020	07/16/20 13:31	



## Certificate of Analysis

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Project Number : New Dock  
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Reported : 07/16/2020

**Client Sample ID: ND-8-3**

**Lab ID: 2001528-13**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,1,1-Trichloroethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,1,2,2-Tetrachloroethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,1,2-Trichloroethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,1-Dichloroethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,1-Dichloroethene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,1-Dichloropropene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,2,3-Trichloropropane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,2,3-Trichlorobenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,2,4-Trichlorobenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,2,4-Trimethylbenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,2-Dibromo-3-chloropropane	ND	7.6	1	B0F0588	06/27/2020	06/27/20 04:15	
1,2-Dibromoethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,2-Dichlorobenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,2-Dichloroethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,2-Dichloropropane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,3,5-Trimethylbenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,3-Dichlorobenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,3-Dichloropropane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
1,4-Dichlorobenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
2,2-Dichloropropane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
2-Chlorotoluene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
4-Chlorotoluene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
4-Isopropyltoluene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Benzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Bromobenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Bromochloromethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Bromodichloromethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Bromoform	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Bromomethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Carbon disulfide	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Carbon tetrachloride	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Chlorobenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Chloroethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Chloroform	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Chloromethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-8-3**

**Lab ID: 2001528-13**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
cis-1,3-Dichloropropene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Di-isopropyl ether	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Dibromochloromethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Dibromomethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Dichlorodifluoromethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Ethyl Acetate	ND	38	1	B0F0588	06/27/2020	06/27/20 04:15	
Ethyl Ether	ND	38	1	B0F0588	06/27/2020	06/27/20 04:15	
Ethyl tert-butyl ether	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Ethylbenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Freon-113	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Hexachlorobutadiene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Isopropylbenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
m,p-Xylene	ND	7.6	1	B0F0588	06/27/2020	06/27/20 04:15	
Methylene chloride	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
MTBE	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
n-Butylbenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
n-Propylbenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Naphthalene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
o-Xylene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
sec-Butylbenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Styrene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
tert-Amyl methyl ether	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
tert-Butanol	ND	76	1	B0F0588	06/27/2020	06/27/20 04:15	
tert-Butylbenzene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Tetrachloroethene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Toluene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
trans-1,2-Dichloroethene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
trans-1,3-Dichloropropene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Trichloroethene	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Trichlorofluoromethane	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
Vinyl acetate	ND	38	1	B0F0588	06/27/2020	06/27/20 04:15	
Vinyl chloride	ND	3.8	1	B0F0588	06/27/2020	06/27/20 04:15	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>155 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 04:15	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 04:15	
<i>Surrogate: Dibromofluoromethane</i>	<i>130 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 04:15	





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-8-3**

**Lab ID: 2001528-13**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	<i>06/27/20 04:15</i>	

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Acenaphthene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Acenaphthylene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Anthracene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Benzo(a)anthracene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Benzo(a)pyrene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Benzo(b)fluoranthene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Benzo(g,h,i)perylene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Benzo(k)fluoranthene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Chrysene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Dibenz(a,h)anthracene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Fluoranthene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Fluorene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Indeno(1,2,3-cd)pyrene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Naphthalene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Phenanthrene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
Pyrene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 15:18	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>95.6 %</i>	<i>12 - 125</i>		B0G0164	07/09/2020	<i>07/13/20 15:18</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>115 %</i>	<i>14 - 139</i>		B0G0164	07/09/2020	<i>07/13/20 15:18</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>99.0 %</i>	<i>8 - 155</i>		B0G0164	07/09/2020	<i>07/13/20 15:18</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>105 %</i>	<i>16 - 152</i>		B0G0164	07/09/2020	<i>07/13/20 15:18</i>	



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Wood PLC  
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Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-8-6**  
**Lab ID: 2001528-14**

### Title 22 Metals by ICP-AES EPA 6010B

Analyst: TA

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Arsenic	3.3	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Barium	94	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Chromium	17	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Cobalt	6.8	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Copper	16	2.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Lead	12	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Molybdenum	1.0	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Nickel	14	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Vanadium	31	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	
Zinc	43	1.0	1	B0G0007	07/01/2020	07/01/20 13:56	

### Mercury by AA (Cold Vapor) EPA 7471A

Analyst: AH

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 15:02	

### Gasoline Range Organics by EPA 8015B (Modified)

Analyst: Kur

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 20:31	
Surrogate: 4-Bromofluorobenzene	72.3 %	45 - 149		B0G0018	07/01/2020	07/01/20 20:31	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
C13-C40 Total	17	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	



# Certificate of Analysis

Wood PLC  
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Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-8-6**  
**Lab ID: 2001528-14**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
C17-C18	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
C19-C20	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
C21-C22	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
<b>C23-C24</b>	<b>1.1</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
<b>C25-C26</b>	<b>1.3</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
<b>C27-C28</b>	<b>1.3</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
<b>C29-C32</b>	<b>3.5</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
<b>C33-C36</b>	<b>3.5</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
<b>C37-C40</b>	<b>3.9</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:37	
<i>Surrogate: p-Terphenyl</i>	<i>48.9 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	07/01/20 12:37	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,1,1-Trichloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,1,2,2-Tetrachloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,1,2-Trichloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,1-Dichloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,1-Dichloroethene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,1-Dichloropropene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,2,3-Trichloropropane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,2,3-Trichlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,2,4-Trichlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,2,4-Trimethylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,2-Dibromo-3-chloropropane	ND	8.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,2-Dibromoethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,2-Dichlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,2-Dichloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,2-Dichloropropane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,3,5-Trimethylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,3-Dichlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,3-Dichloropropane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
1,4-Dichlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-8-6**

**Lab ID: 2001528-14**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
2-Chlorotoluene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
4-Chlorotoluene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
4-Isopropyltoluene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Benzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Bromobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Bromochloromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Bromodichloromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Bromoform	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Bromomethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Carbon disulfide	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Carbon tetrachloride	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Chlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Chloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Chloroform	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Chloromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
cis-1,2-Dichloroethene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
cis-1,3-Dichloropropene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Di-isopropyl ether	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Dibromochloromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Dibromomethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Dichlorodifluoromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Ethyl Acetate	ND	41	1	B0F0588	06/27/2020	06/27/20 04:37	
Ethyl Ether	ND	41	1	B0F0588	06/27/2020	06/27/20 04:37	
Ethyl tert-butyl ether	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Ethylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Freon-113	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Hexachlorobutadiene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Isopropylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
m,p-Xylene	ND	8.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Methylene chloride	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
MTBE	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
n-Butylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
n-Propylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Naphthalene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
o-Xylene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-8-6**

**Lab ID: 2001528-14**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Styrene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
tert-Amyl methyl ether	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
tert-Butanol	ND	81	1	B0F0588	06/27/2020	06/27/20 04:37	
tert-Butylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Tetrachloroethene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Toluene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
trans-1,2-Dichloroethene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
trans-1,3-Dichloropropene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Trichloroethene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Trichlorofluoromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
Vinyl acetate	ND	41	1	B0F0588	06/27/2020	06/27/20 04:37	
Vinyl chloride	ND	4.1	1	B0F0588	06/27/2020	06/27/20 04:37	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>149 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 04:37	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.0 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 04:37	
<i>Surrogate: Dibromofluoromethane</i>	<i>128 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 04:37	
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 04:37	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-9-2.5**

**Lab ID: 2001528-15**

**Title 22 Metals by ICP-AES EPA 6010B**

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:58	
<b>Arsenic</b>	<b>4.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
<b>Barium</b>	<b>63</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
<b>Chromium</b>	<b>12</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
<b>Cobalt</b>	<b>4.8</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
<b>Copper</b>	<b>12</b>	2.0	1	B0G0007	07/01/2020	07/01/20 13:58	
<b>Lead</b>	<b>11</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
Molybdenum	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
<b>Nickel</b>	<b>10</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
<b>Vanadium</b>	<b>22</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	
<b>Zinc</b>	<b>36</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:58	

**Mercury by AA (Cold Vapor) EPA 7471A**

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 15:05	

**Gasoline Range Organics by EPA 8015B (Modified)**

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 20:55	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>70.7 %</i>	<i>45 - 149</i>		B0G0018	07/01/2020	07/01/20 20:55	

**Hydrocarbon Chain Distribution by EPA 8015B (Modified)**

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	10	10	B0F0641	06/29/2020	07/01/20 07:12	
<b>C13-C40 Total</b>	<b>820</b>	10	10	B0F0641	06/29/2020	07/01/20 07:12	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-9-2.5**

**Lab ID: 2001528-15**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	10	10	B0F0641	06/29/2020	07/01/20 07:12	
C17-C18	ND	10	10	B0F0641	06/29/2020	07/01/20 07:12	
C19-C20	ND	10	10	B0F0641	06/29/2020	07/01/20 07:12	
C21-C22	ND	10	10	B0F0641	06/29/2020	07/01/20 07:12	
<b>C23-C24</b>	<b>16</b>	10	10	B0F0641	06/29/2020	07/01/20 07:12	
<b>C25-C26</b>	<b>28</b>	10	10	B0F0641	06/29/2020	07/01/20 07:12	
<b>C27-C28</b>	<b>33</b>	10	10	B0F0641	06/29/2020	07/01/20 07:12	
<b>C29-C32</b>	<b>150</b>	10	10	B0F0641	06/29/2020	07/01/20 07:12	
<b>C33-C36</b>	<b>250</b>	10	10	B0F0641	06/29/2020	07/01/20 07:12	
<b>C37-C40</b>	<b>320</b>	10	10	B0F0641	06/29/2020	07/01/20 07:12	
<i>Surrogate: p-Terphenyl</i>	<i>72.7 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	07/01/20 07:12	

### Polychlorinated Biphenyls by EPA 8082

Analyst: DP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B0G0163	07/09/2020	07/16/20 13:50	
Aroclor 1221	ND	16	1	B0G0163	07/09/2020	07/16/20 13:50	
Aroclor 1232	ND	16	1	B0G0163	07/09/2020	07/16/20 13:50	
Aroclor 1242	ND	16	1	B0G0163	07/09/2020	07/16/20 13:50	
Aroclor 1248	ND	16	1	B0G0163	07/09/2020	07/16/20 13:50	
<b>Aroclor 1254</b>	<b>16</b>	16	1	B0G0163	07/09/2020	07/16/20 13:50	
Aroclor 1260	ND	16	1	B0G0163	07/09/2020	07/16/20 13:50	
Aroclor 1262	ND	16	1	B0G0163	07/09/2020	07/16/20 13:50	
Aroclor 1268	ND	16	1	B0G0163	07/09/2020	07/16/20 13:50	
<i>Surrogate: Decachlorobiphenyl</i>	<i>34.7 %</i>	<i>21 - 94</i>		B0G0163	07/09/2020	07/16/20 13:50	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>56.6 %</i>	<i>28 - 95</i>		B0G0163	07/09/2020	07/16/20 13:50	



## Certificate of Analysis

Wood PLC  
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Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-9-2.5**

**Lab ID: 2001528-15**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,1,1-Trichloroethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,1,2,2-Tetrachloroethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,1,2-Trichloroethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,1-Dichloroethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,1-Dichloroethene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,1-Dichloropropene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,2,3-Trichloropropane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,2,3-Trichlorobenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,2,4-Trichlorobenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,2,4-Trimethylbenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,2-Dibromo-3-chloropropane	ND	13	1	B0F0588	06/27/2020	06/27/20 04:58	
1,2-Dibromoethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,2-Dichlorobenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,2-Dichloroethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,2-Dichloropropane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,3,5-Trimethylbenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,3-Dichlorobenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,3-Dichloropropane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
1,4-Dichlorobenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
2,2-Dichloropropane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
2-Chlorotoluene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
4-Chlorotoluene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
4-Isopropyltoluene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Benzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Bromobenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Bromochloromethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Bromodichloromethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Bromoform	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Bromomethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Carbon disulfide	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Carbon tetrachloride	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Chlorobenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Chloroethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Chloroform	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Chloromethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-9-2.5**

**Lab ID: 2001528-15**

**Volatile Organic Compounds by EPA 5035 / EPA 8260B**

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
cis-1,3-Dichloropropene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Di-isopropyl ether	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Dibromochloromethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Dibromomethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Dichlorodifluoromethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Ethyl Acetate	ND	65	1	B0F0588	06/27/2020	06/27/20 04:58	
Ethyl Ether	ND	65	1	B0F0588	06/27/2020	06/27/20 04:58	
Ethyl tert-butyl ether	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Ethylbenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Freon-113	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Hexachlorobutadiene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Isopropylbenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
m,p-Xylene	ND	13	1	B0F0588	06/27/2020	06/27/20 04:58	
Methylene chloride	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
MTBE	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
n-Butylbenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
n-Propylbenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Naphthalene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
o-Xylene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
sec-Butylbenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Styrene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
tert-Amyl methyl ether	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
tert-Butanol	ND	130	1	B0F0588	06/27/2020	06/27/20 04:58	
tert-Butylbenzene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Tetrachloroethene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Toluene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
trans-1,2-Dichloroethene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
trans-1,3-Dichloropropene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Trichloroethene	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Trichlorofluoromethane	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
Vinyl acetate	ND	65	1	B0F0588	06/27/2020	06/27/20 04:58	
Vinyl chloride	ND	6.5	1	B0F0588	06/27/2020	06/27/20 04:58	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>147 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 04:58	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>105 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 04:58	
<i>Surrogate: Dibromofluoromethane</i>	<i>125 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 04:58	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-9-2.5**

**Lab ID: 2001528-15**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 04:58	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-9-5.5**

**Lab ID: 2001528-16**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 13:59	
<b>Arsenic</b>	<b>2.2</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
<b>Barium</b>	<b>85</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
<b>Chromium</b>	<b>15</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
<b>Cobalt</b>	<b>5.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
<b>Copper</b>	<b>12</b>	2.0	1	B0G0007	07/01/2020	07/01/20 13:59	
<b>Lead</b>	<b>11</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
Molybdenum	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
<b>Nickel</b>	<b>11</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
<b>Vanadium</b>	<b>29</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	
<b>Zinc</b>	<b>37</b>	1.0	1	B0G0007	07/01/2020	07/01/20 13:59	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 15:07	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 21:18	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>73.9 %</i>	<i>45 - 149</i>		B0G0018	07/01/2020	07/01/20 21:18	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
<b>C13-C40 Total</b>	<b>330</b>	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-9-5.5**

**Lab ID: 2001528-16**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
C17-C18	ND	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
C19-C20	ND	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
C21-C22	ND	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
<b>C23-C24</b>	<b>7.2</b>	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
<b>C25-C26</b>	<b>13</b>	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
<b>C27-C28</b>	<b>17</b>	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
<b>C29-C32</b>	<b>64</b>	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
<b>C33-C36</b>	<b>94</b>	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
<b>C37-C40</b>	<b>130</b>	5.0	5	B0F0641	06/29/2020	07/01/20 14:05	
<i>Surrogate: p-Terphenyl</i>	<i>84.1 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	<i>07/01/20 14:05</i>	

## Polychlorinated Biphenyls by EPA 8082

**Analyst: DP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B0G0163	07/09/2020	07/16/20 14:10	
Aroclor 1221	ND	16	1	B0G0163	07/09/2020	07/16/20 14:10	
Aroclor 1232	ND	16	1	B0G0163	07/09/2020	07/16/20 14:10	
Aroclor 1242	ND	16	1	B0G0163	07/09/2020	07/16/20 14:10	
Aroclor 1248	ND	16	1	B0G0163	07/09/2020	07/16/20 14:10	
Aroclor 1254	ND	16	1	B0G0163	07/09/2020	07/16/20 14:10	
Aroclor 1260	ND	16	1	B0G0163	07/09/2020	07/16/20 14:10	
Aroclor 1262	ND	16	1	B0G0163	07/09/2020	07/16/20 14:10	
Aroclor 1268	ND	16	1	B0G0163	07/09/2020	07/16/20 14:10	
<i>Surrogate: Decachlorobiphenyl</i>	<i>34.8 %</i>	<i>21 - 94</i>		B0G0163	07/09/2020	<i>07/16/20 14:10</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>59.8 %</i>	<i>28 - 95</i>		B0G0163	07/09/2020	<i>07/16/20 14:10</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-9-5.5**

**Lab ID: 2001528-16**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,1,1-Trichloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,1,2,2-Tetrachloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,1,2-Trichloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,1-Dichloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,1-Dichloroethene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,1-Dichloropropene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,2,3-Trichloropropane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,2,3-Trichlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,2,4-Trichlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,2,4-Trimethylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,2-Dibromo-3-chloropropane	ND	8.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,2-Dibromoethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,2-Dichlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,2-Dichloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,2-Dichloropropane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,3,5-Trimethylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,3-Dichlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,3-Dichloropropane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
1,4-Dichlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
2,2-Dichloropropane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
2-Chlorotoluene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
4-Chlorotoluene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
4-Isopropyltoluene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Benzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Bromobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Bromochloromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Bromodichloromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Bromoform	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Bromomethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Carbon disulfide	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Carbon tetrachloride	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Chlorobenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Chloroethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Chloroform	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Chloromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-9-5.5**

**Lab ID: 2001528-16**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
cis-1,3-Dichloropropene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Di-isopropyl ether	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Dibromochloromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Dibromomethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Dichlorodifluoromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Ethyl Acetate	ND	41	1	B0F0588	06/27/2020	06/27/20 05:20	
Ethyl Ether	ND	41	1	B0F0588	06/27/2020	06/27/20 05:20	
Ethyl tert-butyl ether	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Ethylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Freon-113	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Hexachlorobutadiene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Isopropylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
m,p-Xylene	ND	8.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Methylene chloride	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
MTBE	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
n-Butylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
n-Propylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Naphthalene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
o-Xylene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
sec-Butylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Styrene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
tert-Amyl methyl ether	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
tert-Butanol	ND	81	1	B0F0588	06/27/2020	06/27/20 05:20	
tert-Butylbenzene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Tetrachloroethene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Toluene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
trans-1,2-Dichloroethene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
trans-1,3-Dichloropropene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Trichloroethene	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Trichlorofluoromethane	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
Vinyl acetate	ND	41	1	B0F0588	06/27/2020	06/27/20 05:20	
Vinyl chloride	ND	4.1	1	B0F0588	06/27/2020	06/27/20 05:20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>151 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 05:20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.5 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 05:20	
<i>Surrogate: Dibromofluoromethane</i>	<i>128 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 05:20	



## Certificate of Analysis

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Project Number : New Dock  
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Reported : 07/16/2020

**Client Sample ID: ND-9-5.5**

**Lab ID: 2001528-16**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>107 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 05:20	



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**Client Sample ID: ND-10-2**

**Lab ID: 2001528-17**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 14:00	
<b>Arsenic</b>	<b>4.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
<b>Barium</b>	<b>170</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
<b>Chromium</b>	<b>18</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
<b>Cobalt</b>	<b>5.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
<b>Copper</b>	<b>20</b>	2.0	1	B0G0007	07/01/2020	07/01/20 14:00	
<b>Lead</b>	<b>100</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
<b>Molybdenum</b>	<b>1.5</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
<b>Nickel</b>	<b>13</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
<b>Vanadium</b>	<b>26</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	
<b>Zinc</b>	<b>95</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:00	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 15:10	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 21:41	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>75.5 %</i>	<i>45 - 149</i>		B0G0018	07/01/2020	07/01/20 21:41	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
<b>C13-C40 Total</b>	<b>320</b>	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	





## Certificate of Analysis

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**Client Sample ID: ND-10-2**  
**Lab ID: 2001528-17**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	2.6	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
C17-C18	5.1	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
C19-C20	7.6	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
C21-C22	14	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
C23-C24	19	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
C25-C26	26	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
C27-C28	26	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
C29-C32	69	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
C33-C36	74	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
C37-C40	78	2.0	2	B0F0641	06/29/2020	07/02/20 09:34	
<i>Surrogate: p-Terphenyl</i>	58.3 %	15 - 110		B0F0641	06/29/2020	07/02/20 09:34	

### Polychlorinated Biphenyls by EPA 8082

Analyst: DP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	80	5	B0G0163	07/09/2020	07/16/20 14:29	D2
Aroclor 1221	ND	80	5	B0G0163	07/09/2020	07/16/20 14:29	D2
Aroclor 1232	ND	80	5	B0G0163	07/09/2020	07/16/20 14:29	D2
Aroclor 1242	ND	80	5	B0G0163	07/09/2020	07/16/20 14:29	D2
Aroclor 1248	ND	80	5	B0G0163	07/09/2020	07/16/20 14:29	D2
Aroclor 1254	ND	80	5	B0G0163	07/09/2020	07/16/20 14:29	D2
Aroclor 1260	ND	80	5	B0G0163	07/09/2020	07/16/20 14:29	D2
Aroclor 1262	ND	80	5	B0G0163	07/09/2020	07/16/20 14:29	D2
Aroclor 1268	ND	80	5	B0G0163	07/09/2020	07/16/20 14:29	D2
<i>Surrogate: Decachlorobiphenyl</i>	37.8 %	21 - 94		B0G0163	07/09/2020	07/16/20 14:29	D2
<i>Surrogate: Tetrachloro-m-xylene</i>	0%	28 - 95		B0G0163	07/09/2020	07/16/20 14:29	D2, S10



## Certificate of Analysis

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Project Number : New Dock  
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Reported : 07/16/2020

**Client Sample ID: ND-10-2**

**Lab ID: 2001528-17**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,1,1-Trichloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,1,2,2-Tetrachloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,1,2-Trichloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,1-Dichloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,1-Dichloroethene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,1-Dichloropropene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,2,3-Trichloropropane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,2,3-Trichlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,2,4-Trichlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,2,4-Trimethylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,2-Dibromo-3-chloropropane	ND	7.7	1	B0F0588	06/27/2020	06/27/20 05:41	
1,2-Dibromoethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,2-Dichlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,2-Dichloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,2-Dichloropropane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,3,5-Trimethylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,3-Dichlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,3-Dichloropropane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
1,4-Dichlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
2,2-Dichloropropane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
2-Chlorotoluene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
4-Chlorotoluene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
4-Isopropyltoluene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Benzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Bromobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Bromochloromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Bromodichloromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Bromoform	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Bromomethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Carbon disulfide	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Carbon tetrachloride	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Chlorobenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Chloroethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Chloroform	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Chloromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-10-2**

**Lab ID: 2001528-17**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
cis-1,3-Dichloropropene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Di-isopropyl ether	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Dibromochloromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Dibromomethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Dichlorodifluoromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Ethyl Acetate	ND	39	1	B0F0588	06/27/2020	06/27/20 05:41	
Ethyl Ether	ND	39	1	B0F0588	06/27/2020	06/27/20 05:41	
Ethyl tert-butyl ether	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Ethylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Freon-113	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Hexachlorobutadiene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Isopropylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
m,p-Xylene	ND	7.7	1	B0F0588	06/27/2020	06/27/20 05:41	
Methylene chloride	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
MTBE	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
n-Butylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
n-Propylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Naphthalene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
o-Xylene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
sec-Butylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Styrene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
tert-Amyl methyl ether	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
tert-Butanol	ND	77	1	B0F0588	06/27/2020	06/27/20 05:41	
tert-Butylbenzene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Tetrachloroethene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Toluene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
trans-1,2-Dichloroethene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
trans-1,3-Dichloropropene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Trichloroethene	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Trichlorofluoromethane	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
Vinyl acetate	ND	39	1	B0F0588	06/27/2020	06/27/20 05:41	
Vinyl chloride	ND	3.9	1	B0F0588	06/27/2020	06/27/20 05:41	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>149 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 05:41	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 05:41	
<i>Surrogate: Dibromofluoromethane</i>	<i>134 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 05:41	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-10-2**

**Lab ID: 2001528-17**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 05:41	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-10-5.5**

**Lab ID: 2001528-18**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Arsenic	3.5	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Barium	94	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Chromium	18	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Cobalt	5.2	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Copper	14	2.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Lead	23	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Molybdenum	1.0	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Nickel	13	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Selenium	1.5	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Vanadium	29	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	
Zinc	50	1.0	1	B0G0007	07/01/2020	07/01/20 14:02	

### Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 15:12	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 22:04	
Surrogate: 4-Bromofluorobenzene	71.9 %	45 - 149		B0G0018	07/01/2020	07/01/20 22:04	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	10	10	B0F0641	06/29/2020	07/01/20 13:12	
C13-C40 Total	300	10	10	B0F0641	06/29/2020	07/01/20 13:12	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-10-5.5**

**Lab ID: 2001528-18**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	10	10	B0F0641	06/29/2020	07/01/20 13:12	
C17-C18	ND	10	10	B0F0641	06/29/2020	07/01/20 13:12	
C19-C20	ND	10	10	B0F0641	06/29/2020	07/01/20 13:12	
C21-C22	ND	10	10	B0F0641	06/29/2020	07/01/20 13:12	
C23-C24	ND	10	10	B0F0641	06/29/2020	07/01/20 13:12	
<b>C25-C26</b>	<b>12</b>	10	10	B0F0641	06/29/2020	07/01/20 13:12	
<b>C27-C28</b>	<b>16</b>	10	10	B0F0641	06/29/2020	07/01/20 13:12	
<b>C29-C32</b>	<b>59</b>	10	10	B0F0641	06/29/2020	07/01/20 13:12	
<b>C33-C36</b>	<b>85</b>	10	10	B0F0641	06/29/2020	07/01/20 13:12	
<b>C37-C40</b>	<b>100</b>	10	10	B0F0641	06/29/2020	07/01/20 13:12	
<i>Surrogate: p-Terphenyl</i>	<i>73.9 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	<i>07/01/20 13:12</i>	

## Polychlorinated Biphenyls by EPA 8082

**Analyst: DP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	80	5	B0G0163	07/09/2020	07/16/20 14:48	D2
Aroclor 1221	ND	80	5	B0G0163	07/09/2020	07/16/20 14:48	D2
Aroclor 1232	ND	80	5	B0G0163	07/09/2020	07/16/20 14:48	D2
Aroclor 1242	ND	80	5	B0G0163	07/09/2020	07/16/20 14:48	D2
Aroclor 1248	ND	80	5	B0G0163	07/09/2020	07/16/20 14:48	D2
Aroclor 1254	ND	80	5	B0G0163	07/09/2020	07/16/20 14:48	D2
Aroclor 1260	ND	80	5	B0G0163	07/09/2020	07/16/20 14:48	D2
Aroclor 1262	ND	80	5	B0G0163	07/09/2020	07/16/20 14:48	D2
Aroclor 1268	ND	80	5	B0G0163	07/09/2020	07/16/20 14:48	D2
<i>Surrogate: Decachlorobiphenyl</i>	<i>25.3 %</i>	<i>21 - 94</i>		B0G0163	07/09/2020	<i>07/16/20 14:48</i>	<i>D2</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>45.9 %</i>	<i>28 - 95</i>		B0G0163	07/09/2020	<i>07/16/20 14:48</i>	<i>D2</i>



## Certificate of Analysis

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3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-10-5.5**

**Lab ID: 2001528-18**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,1,1-Trichloroethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,1,2,2-Tetrachloroethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,1,2-Trichloroethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,1-Dichloroethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,1-Dichloroethene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,1-Dichloropropene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,2,3-Trichloropropane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,2,3-Trichlorobenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,2,4-Trichlorobenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,2,4-Trimethylbenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,2-Dibromo-3-chloropropane	ND	12	1	B0F0588	06/27/2020	06/27/20 06:03	
1,2-Dibromoethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,2-Dichlorobenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,2-Dichloroethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,2-Dichloropropane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,3,5-Trimethylbenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,3-Dichlorobenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,3-Dichloropropane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
1,4-Dichlorobenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
2,2-Dichloropropane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
2-Chlorotoluene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
4-Chlorotoluene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
4-Isopropyltoluene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Benzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Bromobenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Bromochloromethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Bromodichloromethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Bromoform	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Bromomethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Carbon disulfide	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Carbon tetrachloride	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Chlorobenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Chloroethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Chloroform	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Chloromethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-10-5.5**

**Lab ID: 2001528-18**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
cis-1,3-Dichloropropene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Di-isopropyl ether	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Dibromochloromethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Dibromomethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Dichlorodifluoromethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Ethyl Acetate	ND	59	1	B0F0588	06/27/2020	06/27/20 06:03	
Ethyl Ether	ND	59	1	B0F0588	06/27/2020	06/27/20 06:03	
Ethyl tert-butyl ether	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Ethylbenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Freon-113	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Hexachlorobutadiene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Isopropylbenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
m,p-Xylene	ND	12	1	B0F0588	06/27/2020	06/27/20 06:03	
Methylene chloride	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
MTBE	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
n-Butylbenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
n-Propylbenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Naphthalene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
o-Xylene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
sec-Butylbenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Styrene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
tert-Amyl methyl ether	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
tert-Butanol	ND	120	1	B0F0588	06/27/2020	06/27/20 06:03	
tert-Butylbenzene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Tetrachloroethene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Toluene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
trans-1,2-Dichloroethene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
trans-1,3-Dichloropropene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Trichloroethene	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Trichlorofluoromethane	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
Vinyl acetate	ND	59	1	B0F0588	06/27/2020	06/27/20 06:03	
Vinyl chloride	ND	5.9	1	B0F0588	06/27/2020	06/27/20 06:03	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>147 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 06:03	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.5 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 06:03	
<i>Surrogate: Dibromofluoromethane</i>	<i>128 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 06:03	





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-10-5.5**

**Lab ID: 2001528-18**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 06:03	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-1-2.5**

**Lab ID: 2001528-19**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 14:03	
<b>Arsenic</b>	<b>1.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
<b>Barium</b>	<b>50</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
<b>Chromium</b>	<b>12</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
<b>Cobalt</b>	<b>3.4</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
<b>Copper</b>	<b>5.9</b>	2.0	1	B0G0007	07/01/2020	07/01/20 14:03	
<b>Lead</b>	<b>5.2</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
Molybdenum	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
<b>Nickel</b>	<b>8.9</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
<b>Vanadium</b>	<b>19</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	
<b>Zinc</b>	<b>23</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:03	

### Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 15:15	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 17:03	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>72.1 %</i>	<i>45 - 149</i>		B0G0018	07/01/2020	07/01/20 17:03	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	20	20	B0F0641	06/29/2020	07/01/20 07:29	
<b>C13-C40 Total</b>	<b>1300</b>	20	20	B0F0641	06/29/2020	07/01/20 07:29	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-1-2.5**

**Lab ID: 2001528-19**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	20	20	B0F0641	06/29/2020	07/01/20 07:29	
C17-C18	ND	20	20	B0F0641	06/29/2020	07/01/20 07:29	
C19-C20	ND	20	20	B0F0641	06/29/2020	07/01/20 07:29	
C21-C22	ND	20	20	B0F0641	06/29/2020	07/01/20 07:29	
C23-C24	ND	20	20	B0F0641	06/29/2020	07/01/20 07:29	
C25-C26	47	20	20	B0F0641	06/29/2020	07/01/20 07:29	
C27-C28	50	20	20	B0F0641	06/29/2020	07/01/20 07:29	
C29-C32	230	20	20	B0F0641	06/29/2020	07/01/20 07:29	
C33-C36	340	20	20	B0F0641	06/29/2020	07/01/20 07:29	
C37-C40	550	20	20	B0F0641	06/29/2020	07/01/20 07:29	
Surrogate: p-Terphenyl	1.00 %	15 - 110		B0F0641	06/29/2020	07/01/20 07:29	S4

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,1,1-Trichloroethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,1,2,2-Tetrachloroethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,1,2-Trichloroethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,1-Dichloroethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,1-Dichloroethene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,1-Dichloropropene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,2,3-Trichloropropane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,2,3-Trichlorobenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,2,4-Trichlorobenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,2,4-Trimethylbenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,2-Dibromo-3-chloropropane	ND	12	1	B0F0588	06/27/2020	06/27/20 06:24	
1,2-Dibromoethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,2-Dichlorobenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,2-Dichloroethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,2-Dichloropropane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,3,5-Trimethylbenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,3-Dichlorobenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,3-Dichloropropane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
1,4-Dichlorobenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-1-2.5**

**Lab ID: 2001528-19**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
2-Chlorotoluene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
4-Chlorotoluene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
4-Isopropyltoluene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Benzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Bromobenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Bromochloromethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Bromodichloromethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Bromoform	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Bromomethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Carbon disulfide	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Carbon tetrachloride	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Chlorobenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Chloroethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Chloroform	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Chloromethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
cis-1,2-Dichloroethene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
cis-1,3-Dichloropropene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Di-isopropyl ether	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Dibromochloromethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Dibromomethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Dichlorodifluoromethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Ethyl Acetate	ND	60	1	B0F0588	06/27/2020	06/27/20 06:24	
Ethyl Ether	ND	60	1	B0F0588	06/27/2020	06/27/20 06:24	
Ethyl tert-butyl ether	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Ethylbenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Freon-113	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Hexachlorobutadiene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Isopropylbenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
m,p-Xylene	ND	12	1	B0F0588	06/27/2020	06/27/20 06:24	
Methylene chloride	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
MTBE	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
n-Butylbenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
n-Propylbenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Naphthalene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
o-Xylene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	



## Certificate of Analysis

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Project Number : New Dock  
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Reported : 07/16/2020

**Client Sample ID: ND-1-2.5**

**Lab ID: 2001528-19**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Styrene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
tert-Amyl methyl ether	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
tert-Butanol	ND	120	1	B0F0588	06/27/2020	06/27/20 06:24	
tert-Butylbenzene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Tetrachloroethene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Toluene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
trans-1,2-Dichloroethene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
trans-1,3-Dichloropropene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Trichloroethene	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Trichlorofluoromethane	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
Vinyl acetate	ND	60	1	B0F0588	06/27/2020	06/27/20 06:24	
Vinyl chloride	ND	6.0	1	B0F0588	06/27/2020	06/27/20 06:24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>155 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	<i>06/27/20 06:24</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>106 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	<i>06/27/20 06:24</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>133 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	<i>06/27/20 06:24</i>	
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	<i>06/27/20 06:24</i>	



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**Lab ID: 2001528-20**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 14:05	
<b>Arsenic</b>	<b>3.9</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
<b>Barium</b>	<b>98</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
<b>Chromium</b>	<b>17</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
<b>Cobalt</b>	<b>6.5</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
<b>Copper</b>	<b>17</b>	2.0	1	B0G0007	07/01/2020	07/01/20 14:05	
<b>Lead</b>	<b>21</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
Molybdenum	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
<b>Nickel</b>	<b>14</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
<b>Vanadium</b>	<b>29</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	
<b>Zinc</b>	<b>49</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:05	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 15:25	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 22:27	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>73.3 %</i>	<i>45 - 149</i>		B0G0018	07/01/2020	07/01/20 22:27	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
<b>C13-C40 Total</b>	<b>6.5</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	



## Certificate of Analysis

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**Client Sample ID: ND-1-5.5**

**Lab ID: 2001528-20**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
C17-C18	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
C19-C20	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
C21-C22	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
C23-C24	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
C25-C26	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
C27-C28	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
C29-C32	ND	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
<b>C33-C36</b>	<b>1.6</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
<b>C37-C40</b>	<b>2.4</b>	1.0	1	B0F0641	06/29/2020	07/01/20 12:20	
<i>Surrogate: p-Terphenyl</i>	<i>60.5 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	07/01/20 12:20	

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,1,1-Trichloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,1,2,2-Tetrachloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,1,2-Trichloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,1-Dichloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,1-Dichloroethene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,1-Dichloropropene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,2,3-Trichloropropane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,2,3-Trichlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,2,4-Trichlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,2,4-Trimethylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,2-Dibromo-3-chloropropane	ND	8.6	1	B0F0588	06/27/2020	06/27/20 06:46	
1,2-Dibromoethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,2-Dichlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,2-Dichloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,2-Dichloropropane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,3,5-Trimethylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,3-Dichlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,3-Dichloropropane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
1,4-Dichlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-1-5.5**

**Lab ID: 2001528-20**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
2-Chlorotoluene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
4-Chlorotoluene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
4-Isopropyltoluene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Benzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Bromobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Bromochloromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Bromodichloromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Bromoform	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Bromomethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Carbon disulfide	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Carbon tetrachloride	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Chlorobenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Chloroethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Chloroform	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Chloromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
cis-1,2-Dichloroethene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
cis-1,3-Dichloropropene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Di-isopropyl ether	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Dibromochloromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Dibromomethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Dichlorodifluoromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Ethyl Acetate	ND	43	1	B0F0588	06/27/2020	06/27/20 06:46	
Ethyl Ether	ND	43	1	B0F0588	06/27/2020	06/27/20 06:46	
Ethyl tert-butyl ether	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Ethylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Freon-113	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Hexachlorobutadiene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Isopropylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
m,p-Xylene	ND	8.6	1	B0F0588	06/27/2020	06/27/20 06:46	
Methylene chloride	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
MTBE	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
n-Butylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
n-Propylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Naphthalene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
o-Xylene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-1-5.5**

**Lab ID: 2001528-20**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Styrene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
tert-Amyl methyl ether	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
tert-Butanol	ND	86	1	B0F0588	06/27/2020	06/27/20 06:46	
tert-Butylbenzene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Tetrachloroethene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Toluene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
trans-1,2-Dichloroethene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
trans-1,3-Dichloropropene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Trichloroethene	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Trichlorofluoromethane	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
Vinyl acetate	ND	43	1	B0F0588	06/27/2020	06/27/20 06:46	
Vinyl chloride	ND	4.3	1	B0F0588	06/27/2020	06/27/20 06:46	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>167 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 06:46	S1
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 06:46	
<i>Surrogate: Dibromofluoromethane</i>	<i>138 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 06:46	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 06:46	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-2-2.5**

**Lab ID: 2001528-21**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 14:09	
<b>Arsenic</b>	<b>2.8</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
<b>Barium</b>	<b>89</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
<b>Chromium</b>	<b>16</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
<b>Cobalt</b>	<b>5.4</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
<b>Copper</b>	<b>15</b>	2.0	1	B0G0007	07/01/2020	07/01/20 14:09	
<b>Lead</b>	<b>19</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
<b>Molybdenum</b>	<b>1.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
<b>Nickel</b>	<b>13</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
<b>Vanadium</b>	<b>29</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	
<b>Zinc</b>	<b>54</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:09	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 15:27	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 22:50	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>70.9 %</i>	<i>45 - 149</i>		B0G0018	07/01/2020	07/01/20 22:50	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	10	10	B0F0641	06/29/2020	07/01/20 14:41	
<b>C13-C40 Total</b>	<b>520</b>	10	10	B0F0641	06/29/2020	07/01/20 14:41	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-2-2.5**

**Lab ID: 2001528-21**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	10	10	B0F0641	06/29/2020	07/01/20 14:41	
C17-C18	ND	10	10	B0F0641	06/29/2020	07/01/20 14:41	
C19-C20	ND	10	10	B0F0641	06/29/2020	07/01/20 14:41	
C21-C22	ND	10	10	B0F0641	06/29/2020	07/01/20 14:41	
C23-C24	ND	10	10	B0F0641	06/29/2020	07/01/20 14:41	
<b>C25-C26</b>	<b>11</b>	10	10	B0F0641	06/29/2020	07/01/20 14:41	
<b>C27-C28</b>	<b>22</b>	10	10	B0F0641	06/29/2020	07/01/20 14:41	
<b>C29-C32</b>	<b>83</b>	10	10	B0F0641	06/29/2020	07/01/20 14:41	
<b>C33-C36</b>	<b>160</b>	10	10	B0F0641	06/29/2020	07/01/20 14:41	
<b>C37-C40</b>	<b>220</b>	10	10	B0F0641	06/29/2020	07/01/20 14:41	
<i>Surrogate: p-Terphenyl</i>	<i>91.9 %</i>	<i>15 - 110</i>		B0F0641	06/29/2020	07/01/20 14:41	

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,1,1-Trichloroethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,1,2,2-Tetrachloroethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,1,2-Trichloroethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,1-Dichloroethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,1-Dichloroethene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,1-Dichloropropene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,2,3-Trichloropropane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,2,3-Trichlorobenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,2,4-Trichlorobenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,2,4-Trimethylbenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,2-Dibromo-3-chloropropane	ND	7.4	1	B0F0588	06/27/2020	06/27/20 07:08	
1,2-Dibromoethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,2-Dichlorobenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,2-Dichloroethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,2-Dichloropropane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,3,5-Trimethylbenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,3-Dichlorobenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,3-Dichloropropane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
1,4-Dichlorobenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-2-2.5**

**Lab ID: 2001528-21**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
2-Chlorotoluene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
4-Chlorotoluene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
4-Isopropyltoluene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Benzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Bromobenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Bromochloromethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Bromodichloromethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Bromoform	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Bromomethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Carbon disulfide	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Carbon tetrachloride	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Chlorobenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Chloroethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Chloroform	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Chloromethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
cis-1,2-Dichloroethene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
cis-1,3-Dichloropropene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Di-isopropyl ether	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Dibromochloromethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Dibromomethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Dichlorodifluoromethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Ethyl Acetate	ND	37	1	B0F0588	06/27/2020	06/27/20 07:08	
Ethyl Ether	ND	37	1	B0F0588	06/27/2020	06/27/20 07:08	
Ethyl tert-butyl ether	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Ethylbenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Freon-113	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Hexachlorobutadiene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Isopropylbenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
m,p-Xylene	ND	7.4	1	B0F0588	06/27/2020	06/27/20 07:08	
Methylene chloride	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
MTBE	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
n-Butylbenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
n-Propylbenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Naphthalene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
o-Xylene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-2-2.5**

**Lab ID: 2001528-21**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Styrene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
tert-Amyl methyl ether	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
tert-Butanol	ND	74	1	B0F0588	06/27/2020	06/27/20 07:08	
tert-Butylbenzene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Tetrachloroethene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Toluene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
trans-1,2-Dichloroethene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
trans-1,3-Dichloropropene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Trichloroethene	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Trichlorofluoromethane	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
Vinyl acetate	ND	37	1	B0F0588	06/27/2020	06/27/20 07:08	
Vinyl chloride	ND	3.7	1	B0F0588	06/27/2020	06/27/20 07:08	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>160 %</i>	<i>58 - 160</i>		B0F0588	06/27/2020	06/27/20 07:08	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.7 %</i>	<i>72 - 121</i>		B0F0588	06/27/2020	06/27/20 07:08	
<i>Surrogate: Dibromofluoromethane</i>	<i>131 %</i>	<i>75 - 139</i>		B0F0588	06/27/2020	06/27/20 07:08	
<i>Surrogate: Toluene-d8</i>	<i>111 %</i>	<i>84 - 115</i>		B0F0588	06/27/2020	06/27/20 07:08	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-2-5.5**

**Lab ID: 2001528-22**

**Title 22 Metals by ICP-AES EPA 6010B**

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0007	07/01/2020	07/01/20 14:11	
<b>Arsenic</b>	<b>3.3</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
<b>Barium</b>	<b>100</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
Beryllium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
Cadmium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
<b>Chromium</b>	<b>19</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
<b>Cobalt</b>	<b>5.9</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
<b>Copper</b>	<b>22</b>	2.0	1	B0G0007	07/01/2020	07/01/20 14:11	
<b>Lead</b>	<b>23</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
<b>Molybdenum</b>	<b>1.1</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
<b>Nickel</b>	<b>14</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
Selenium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
Silver	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
Thallium	ND	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
<b>Vanadium</b>	<b>30</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	
<b>Zinc</b>	<b>59</b>	1.0	1	B0G0007	07/01/2020	07/01/20 14:11	

**Mercury by AA (Cold Vapor) EPA 7471A**

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0008	07/01/2020	07/01/20 15:30	

**Gasoline Range Organics by EPA 8015B (Modified)**

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0018	07/01/2020	07/01/20 23:13	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>71.1 %</i>	<i>45 - 149</i>		B0G0018	07/01/2020	07/01/20 23:13	

**Hydrocarbon Chain Distribution by EPA 8015B (Modified)**

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<b>C13-C14</b>	<b>11</b>	10	10	B0F0641	06/29/2020	07/01/20 12:54	
<b>C13-C40 Total</b>	<b>530</b>	10	10	B0F0641	06/29/2020	07/01/20 12:54	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-2-5.5**

**Lab ID: 2001528-22**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	20	10	10	B0F0641	06/29/2020	07/01/20 12:54	
C17-C18	32	10	10	B0F0641	06/29/2020	07/01/20 12:54	
C19-C20	34	10	10	B0F0641	06/29/2020	07/01/20 12:54	
C21-C22	33	10	10	B0F0641	06/29/2020	07/01/20 12:54	
C23-C24	33	10	10	B0F0641	06/29/2020	07/01/20 12:54	
C25-C26	36	10	10	B0F0641	06/29/2020	07/01/20 12:54	
C27-C28	39	10	10	B0F0641	06/29/2020	07/01/20 12:54	
C29-C32	98	10	10	B0F0641	06/29/2020	07/01/20 12:54	
C33-C36	97	10	10	B0F0641	06/29/2020	07/01/20 12:54	
C37-C40	100	10	10	B0F0641	06/29/2020	07/01/20 12:54	
Surrogate: <i>p</i> -Terphenyl	68.1 %	15 - 110		B0F0641	06/29/2020	07/01/20 12:54	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,1,1-Trichloroethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,1,2,2-Tetrachloroethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,1,2-Trichloroethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,1-Dichloroethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,1-Dichloroethene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,1-Dichloropropene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,2,3-Trichloropropane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,2,3-Trichlorobenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,2,4-Trichlorobenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,2,4-Trimethylbenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,2-Dibromo-3-chloropropane	ND	14	1	B0F0617	06/29/2020	06/29/20 14:43	
1,2-Dibromoethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,2-Dichlorobenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,2-Dichloroethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,2-Dichloropropane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,3,5-Trimethylbenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,3-Dichlorobenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,3-Dichloropropane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
1,4-Dichlorobenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

**Client Sample ID: ND-2-5.5**

**Lab ID: 2001528-22**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
2-Chlorotoluene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
4-Chlorotoluene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
4-Isopropyltoluene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Benzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Bromobenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Bromochloromethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Bromodichloromethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Bromoform	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Bromomethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Carbon disulfide	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Carbon tetrachloride	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Chlorobenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Chloroethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Chloroform	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Chloromethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
cis-1,2-Dichloroethene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
cis-1,3-Dichloropropene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Di-isopropyl ether	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Dibromochloromethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Dibromomethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Dichlorodifluoromethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Ethyl Acetate	ND	70	1	B0F0617	06/29/2020	06/29/20 14:43	
Ethyl Ether	ND	70	1	B0F0617	06/29/2020	06/29/20 14:43	
Ethyl tert-butyl ether	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Ethylbenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Freon-113	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Hexachlorobutadiene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Isopropylbenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
m,p-Xylene	ND	14	1	B0F0617	06/29/2020	06/29/20 14:43	
Methylene chloride	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
MTBE	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
n-Butylbenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
n-Propylbenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Naphthalene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
o-Xylene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	





## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock  
 Report To : Jorge Perez  
 Reported : 07/16/2020

**Client Sample ID: ND-2-5.5**

**Lab ID: 2001528-22**

**Volatile Organic Compounds by EPA 5035 / EPA 8260B**

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Styrene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
tert-Amyl methyl ether	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
tert-Butanol	ND	140	1	B0F0617	06/29/2020	06/29/20 14:43	
tert-Butylbenzene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Tetrachloroethene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Toluene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
trans-1,2-Dichloroethene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
trans-1,3-Dichloropropene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Trichloroethene	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Trichlorofluoromethane	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
Vinyl acetate	ND	70	1	B0F0617	06/29/2020	06/29/20 14:43	
Vinyl chloride	ND	7.0	1	B0F0617	06/29/2020	06/29/20 14:43	
<hr/>							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>129 %</i>	<i>58 - 160</i>		B0F0617	06/29/2020	<i>06/29/20 14:43</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>104 %</i>	<i>72 - 121</i>		B0F0617	06/29/2020	<i>06/29/20 14:43</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>116 %</i>	<i>75 - 139</i>		B0F0617	06/29/2020	<i>06/29/20 14:43</i>	
<i>Surrogate: Toluene-d8</i>	<i>111 %</i>	<i>84 - 115</i>		B0F0617	06/29/2020	<i>06/29/20 14:43</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

### QUALITY CONTROL SECTION

#### Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Batch B0F0645 - EPA 3010A\_W**

**Blank (B0F0645-BLK1)**

Prepared: 6/30/2020 Analyzed: 6/30/2020

Antimony	ND	0.010	0.0088
Arsenic	ND	0.010	0.0078
Barium	ND	0.0030	0.0026
Beryllium	ND	0.0030	0.0016
Cadmium	ND	0.0030	0.0024
Chromium	ND	0.0030	0.0020
Cobalt	ND	0.0030	0.0016
Copper	ND	0.0090	0.0038
Lead	ND	0.0050	0.0047
Molybdenum	ND	0.0050	0.0030
Nickel	ND	0.0050	0.0046
Selenium	ND	0.010	0.0093
Silver	ND	0.0030	0.0024
Thallium	ND	0.015	0.0085
Vanadium	ND	0.0030	0.0022
Zinc	ND	0.025	0.0057

**LCS (B0F0645-BS1)**

Prepared: 6/30/2020 Analyzed: 6/30/2020

Antimony	0.507687	0.010	0.0088	0.500000	102	80 - 120
Arsenic	0.505091	0.010	0.0078	0.500000	101	80 - 120
Barium	0.549431	0.0030	0.0026	0.500000	110	80 - 120
Beryllium	0.529186	0.0030	0.0016	0.500000	106	80 - 120
Cadmium	0.519410	0.0030	0.0024	0.500000	104	80 - 120
Chromium	0.487485	0.0030	0.0020	0.500000	97.5	80 - 120
Cobalt	0.532632	0.0030	0.0016	0.500000	107	80 - 120
Copper	0.563277	0.0090	0.0038	0.500000	113	80 - 120
Lead	0.515013	0.0050	0.0047	0.500000	103	80 - 120
Molybdenum	0.508591	0.0050	0.0030	0.500000	102	80 - 120
Nickel	0.506174	0.0050	0.0046	0.500000	101	80 - 120
Selenium	0.522815	0.010	0.0093	0.500000	105	80 - 120
Silver	0.243786	0.0030	0.0024	0.250000	97.5	80 - 120
Thallium	0.514770	0.015	0.0085	0.500000	103	80 - 120
Vanadium	0.490685	0.0030	0.0022	0.500000	98.1	80 - 120
Zinc	0.517220	0.025	0.0057	0.500000	103	80 - 120

**Duplicate (B0F0645-DUP1)**

Source: 2001527-12

Prepared: 6/30/2020 Analyzed: 6/30/2020

Antimony	ND	0.010	0.0088	ND	NR	20
Arsenic	ND	0.010	0.0078	ND	NR	20



# Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa, CA 92626

Project Number : New Dock  
 Report To : Jorge Perez  
 Reported : 07/16/2020

## Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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### Batch B0F0645 - EPA 3010A\_W (continued)

#### Duplicate (B0F0645-DUP1) - Continued

Source: 2001527-12

Prepared: 6/30/2020 Analyzed: 6/30/2020

Barium	ND	0.0030	0.0026		ND			NR	20	
Beryllium	ND	0.0030	0.0016		ND			NR	20	
Cadmium	ND	0.0030	0.0024		ND			NR	20	
Chromium	ND	0.0030	0.0020		ND			NR	20	
Cobalt	ND	0.0030	0.0016		ND			NR	20	
Copper	ND	0.0090	0.0038		ND			NR	20	
Lead	ND	0.0050	0.0047		ND			NR	20	
Molybdenum	ND	0.0050	0.0030		ND			NR	20	
Nickel	ND	0.0050	0.0046		ND			NR	20	
Selenium	0.056026	0.010	0.0093		0.026789			70.6	20	R
Silver	ND	0.0030	0.0024		ND			NR	20	
Thallium	ND	0.015	0.0085		ND			NR	20	
Vanadium	ND	0.0030	0.0022		ND			NR	20	
Zinc	ND	0.025	0.0057		ND			NR	20	

#### Matrix Spike (B0F0645-MS1)

Source: 2001527-12

Prepared: 6/30/2020 Analyzed: 6/30/2020

Antimony	0.498992	0.010	0.0088	0.500000	ND	99.8	58 - 139			
Arsenic	0.465632	0.010	0.0078	0.500000	ND	93.1	67 - 136			
Barium	0.540036	0.0030	0.0026	0.500000	ND	108	68 - 130			
Beryllium	0.501310	0.0030	0.0016	0.500000	ND	100	70 - 133			
Cadmium	0.508888	0.0030	0.0024	0.500000	ND	102	68 - 136			
Chromium	0.476885	0.0030	0.0020	0.500000	ND	95.4	69 - 135			
Cobalt	0.522400	0.0030	0.0016	0.500000	ND	104	69 - 138			
Copper	0.540099	0.0090	0.0038	0.500000	ND	108	60 - 146			
Lead	0.494058	0.0050	0.0047	0.500000	ND	98.8	58 - 146			
Molybdenum	0.495604	0.0050	0.0030	0.500000	ND	99.1	68 - 132			
Nickel	0.490491	0.0050	0.0046	0.500000	ND	98.1	64 - 135			
Selenium	0.514768	0.010	0.0093	0.500000	0.026789	97.6	57 - 146			
Silver	0.237894	0.0030	0.0024	0.250000	ND	95.2	47 - 151			
Thallium	0.501396	0.015	0.0085	0.500000	ND	100	59 - 133			
Vanadium	0.473438	0.0030	0.0022	0.500000	ND	94.7	70 - 127			
Zinc	0.504558	0.025	0.0057	0.500000	ND	101	53 - 144			

#### Matrix Spike Dup (B0F0645-MSD1)

Source: 2001527-12

Prepared: 6/30/2020 Analyzed: 6/30/2020

Antimony	0.498608	0.010	0.0088	0.500000	ND	99.7	58 - 139	0.0770	20	
Arsenic	0.478552	0.010	0.0078	0.500000	ND	95.7	67 - 136	2.74	20	
Barium	0.546525	0.0030	0.0026	0.500000	ND	109	68 - 130	1.19	20	
Beryllium	0.509299	0.0030	0.0016	0.500000	ND	102	70 - 133	1.58	20	
Cadmium	0.512256	0.0030	0.0024	0.500000	ND	102	68 - 136	0.660	20	
Chromium	0.480889	0.0030	0.0020	0.500000	ND	96.2	69 - 135	0.836	20	
Cobalt	0.525812	0.0030	0.0016	0.500000	ND	105	69 - 138	0.651	20	



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock  
 Report To : Jorge Perez  
 Reported : 07/16/2020

### Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Batch B0F0645 - EPA 3010A\_W (continued)**

**Matrix Spike Dup (B0F0645-MSD1) - Continued**

**Source: 2001527-12**

Prepared: 6/30/2020 Analyzed: 6/30/2020

Copper	0.545790	0.0090	0.0038	0.500000	ND	109	60 - 146	1.05	20	
Lead	0.506418	0.0050	0.0047	0.500000	ND	101	58 - 146	2.47	20	
Molybdenum	0.504938	0.0050	0.0030	0.500000	ND	101	68 - 132	1.87	20	
Nickel	0.496893	0.0050	0.0046	0.500000	ND	99.4	64 - 135	1.30	20	
Selenium	0.505076	0.010	0.0093	0.500000	0.026789	95.7	57 - 146	1.90	20	
Silver	0.239670	0.0030	0.0024	0.250000	ND	95.9	47 - 151	0.744	20	
Thallium	0.526061	0.015	0.0085	0.500000	ND	105	59 - 133	4.80	20	
Vanadium	0.478643	0.0030	0.0022	0.500000	ND	95.7	70 - 127	1.09	20	
Zinc	0.510056	0.025	0.0057	0.500000	ND	102	53 - 144	1.08	20	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

### Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0G0007 - EPA 3050B\_S**

**Blank (B0G0007-BLK1)**

Prepared: 7/1/2020 Analyzed: 7/1/2020

Antimony	ND	2.0	0.51
Arsenic	ND	1.0	0.12
Barium	ND	1.0	0.12
Beryllium	ND	1.0	0.03
Cadmium	ND	1.0	0.14
Chromium	ND	1.0	0.26
Cobalt	ND	1.0	0.07
Copper	ND	2.0	0.19
Lead	ND	1.0	0.18
Molybdenum	ND	1.0	0.12
Nickel	ND	1.0	0.18
Selenium	ND	1.0	0.40
Silver	ND	1.0	0.12
Thallium	ND	1.0	0.38
Vanadium	ND	1.0	0.06
Zinc	ND	1.0	0.15

**LCS (B0G0007-BS1)**

Prepared: 7/1/2020 Analyzed: 7/1/2020

Antimony	24.1507	2.0	0.51	25.0000	96.6	80 - 120
Arsenic	24.1629	1.0	0.12	25.0000	96.7	80 - 120
Barium	26.9060	1.0	0.12	25.0000	108	80 - 120
Beryllium	23.9294	1.0	0.03	25.0000	95.7	80 - 120
Cadmium	24.9735	1.0	0.14	25.0000	99.9	80 - 120
Chromium	24.5897	1.0	0.26	25.0000	98.4	80 - 120
Cobalt	26.1273	1.0	0.07	25.0000	105	80 - 120
Copper	27.2729	2.0	0.19	25.0000	109	80 - 120
Lead	24.8606	1.0	0.18	25.0000	99.4	80 - 120
Molybdenum	24.8752	1.0	0.12	25.0000	99.5	80 - 120
Nickel	24.6460	1.0	0.18	25.0000	98.6	80 - 120
Selenium	24.7790	1.0	0.40	25.0000	99.1	80 - 120
Silver	11.6977	1.0	0.12	12.5000	93.6	80 - 120
Thallium	24.4022	1.0	0.38	25.0000	97.6	80 - 120
Vanadium	23.9224	1.0	0.06	25.0000	95.7	80 - 120
Zinc	25.1525	1.0	0.15	25.0000	101	80 - 120

**Matrix Spike (B0G0007-MS1)**

Source: 2001528-03

Prepared: 7/1/2020 Analyzed: 7/1/2020

Antimony	4.83961	2.0	0.51	25.0000	ND	19.4	0 - 102
Arsenic	28.1501	1.0	0.12	25.0000	6.08918	88.2	55 - 117
Barium	174.618	1.0	0.12	25.0000	115.624	236	11 - 177
Beryllium	23.8646	1.0	0.03	25.0000	0.819117	92.2	64 - 115
Cadmium	23.1367	1.0	0.14	25.0000	ND	92.5	62 - 116

M2



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock  
 Report To : Jorge Perez  
 Reported : 07/16/2020

### Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0G0007 - EPA 3050B\_S (continued)**

**Matrix Spike (B0G0007-MS1) - Continued**

**Source: 2001528-03**

Prepared: 7/1/2020 Analyzed: 7/1/2020

Chromium	50.8080	1.0	0.26	25.0000	26.8452	95.9	42 - 145			
Cobalt	33.0648	1.0	0.07	25.0000	9.66455	93.6	60 - 126			
Copper	60.6008	2.0	0.19	25.0000	35.7772	99.3	37 - 163			
Lead	42.5873	1.0	0.18	25.0000	13.5432	116	26 - 161			
Molybdenum	23.5015	1.0	0.12	25.0000	2.12430	85.5	31 - 122			
Nickel	41.7166	1.0	0.18	25.0000	19.8227	87.6	52 - 130			
Selenium	26.3421	1.0	0.40	25.0000	ND	105	25 - 129			
Silver	12.4005	1.0	0.12	12.5000	0.744364	93.2	48 - 133			
Thallium	ND	1.0	0.38	25.0000	ND	NR	25 - 119			M2
Vanadium	67.0707	1.0	0.06	25.0000	44.3178	91.0	51 - 141			
Zinc	104.413	1.0	0.15	25.0000	73.4054	124	8 - 170			

**Matrix Spike Dup (B0G0007-MSD1)**

**Source: 2001528-03**

Prepared: 7/1/2020 Analyzed: 7/1/2020

Antimony	4.68302	2.0	0.51	25.0000	ND	18.7	0 - 102	3.29	20	
Arsenic	27.9397	1.0	0.12	25.0000	6.08918	87.4	55 - 117	0.751	20	
Barium	175.628	1.0	0.12	25.0000	115.624	240	11 - 177	0.576	20	M2
Beryllium	24.0396	1.0	0.03	25.0000	0.819117	92.9	64 - 115	0.731	20	
Cadmium	23.2392	1.0	0.14	25.0000	ND	93.0	62 - 116	0.442	20	
Chromium	50.7324	1.0	0.26	25.0000	26.8452	95.5	42 - 145	0.149	20	
Cobalt	33.3183	1.0	0.07	25.0000	9.66455	94.6	60 - 126	0.764	20	
Copper	60.5739	2.0	0.19	25.0000	35.7772	99.2	37 - 163	0.0445	20	
Lead	42.8412	1.0	0.18	25.0000	13.5432	117	26 - 161	0.594	20	
Molybdenum	23.6351	1.0	0.12	25.0000	2.12430	86.0	31 - 122	0.567	20	
Nickel	42.0608	1.0	0.18	25.0000	19.8227	89.0	52 - 130	0.822	20	
Selenium	21.5841	1.0	0.40	25.0000	ND	86.3	25 - 129	19.9	20	
Silver	12.3390	1.0	0.12	12.5000	0.744364	92.8	48 - 133	0.497	20	
Thallium	ND	1.0	0.38	25.0000	ND	NR	25 - 119	NR	20	M2
Vanadium	67.5152	1.0	0.06	25.0000	44.3178	92.8	51 - 141	0.661	20	
Zinc	103.172	1.0	0.15	25.0000	73.4054	119	8 - 170	1.20	20	



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock  
 Report To : Jorge Perez  
 Reported : 07/16/2020

### Mercury by AA (Cold Vapor) EPA 7470A - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0F0647 - EPA 245.1/7470_W</b>										
<b>Blank (B0F0647-BLK1)</b>					Prepared: 6/30/2020 Analyzed: 6/30/2020					
Mercury	ND	0.20	0.05							
<b>LCS (B0F0647-BS1)</b>					Prepared: 6/30/2020 Analyzed: 6/30/2020					
Mercury	8.09687	0.20	0.05	10.0000		81.0	80 - 120			
<b>Duplicate (B0F0647-DUP1)</b>					<b>Source: 2001527-12</b> Prepared: 6/30/2020 Analyzed: 6/30/2020					
Mercury	ND	0.20	0.05		ND			NR	20	
<b>Matrix Spike (B0F0647-MS1)</b>					<b>Source: 2001527-12</b> Prepared: 6/30/2020 Analyzed: 6/30/2020					
Mercury	7.44503	0.20	0.05	10.0000	ND	74.5	70 - 130			
<b>Matrix Spike Dup (B0F0647-MSD1)</b>					<b>Source: 2001527-12</b> Prepared: 6/30/2020 Analyzed: 6/30/2020					
Mercury	7.28855	0.20	0.05	10.0000	ND	72.9	70 - 130	2.12	20	
<b>Post Spike (B0F0647-PS1)</b>					<b>Source: 2001527-12</b> Prepared: 6/30/2020 Analyzed: 6/30/2020					
Mercury	4.27487			5.00000	-0.010236	85.5	85 - 115			



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Project Number : New Dock  
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### Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Batch B0G0008 - EPA 7471_S</b>										
<b>Blank (B0G0008-BLK1)</b>					Prepared: 7/1/2020 Analyzed: 7/1/2020					
Mercury	ND	0.10	0.01							
<b>LCS (B0G0008-BS1)</b>					Prepared: 7/1/2020 Analyzed: 7/1/2020					
Mercury	0.333737	0.10	0.01	0.416667		80.1	80 - 120			
<b>Matrix Spike (B0G0008-MS1)</b>					Prepared: 7/1/2020 Analyzed: 7/1/2020					
					<b>Source: 2001528-01</b>					
Mercury	0.426566	0.10	0.01	0.416667	0.046859	91.1	70 - 130			
<b>Matrix Spike Dup (B0G0008-MSD1)</b>					Prepared: 7/1/2020 Analyzed: 7/1/2020					
					<b>Source: 2001528-01</b>					
Mercury	0.457056	0.10	0.01	0.416667	0.046859	98.4	70 - 130	6.90	20	





## Certificate of Analysis

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Project Number : New Dock  
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### Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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#### Batch B0G0008 - EPA 7471\_S

#### Post Spike (B0G0008-PS1)

Source: 2001528-01

Prepared: 7/1/2020 Analyzed: 7/1/2020

Mercury	0.003305		2.50000E-3	0.000562	110	85 - 115			
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## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
 Report To : Jorge Perez  
 Reported : 07/16/2020

### Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0G0001 - GCVOA_W</b>										
<b>Blank (B0G0001-BLK1)</b>										
					Prepared: 7/1/2020 Analyzed: 7/1/2020					
C4-C12	ND	0.20	0.05							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.4108</i>			<i>0.400000</i>		<i>103</i>	<i>70 - 130</i>			
<b>LCS (B0G0001-BS1)</b>										
					Prepared: 7/1/2020 Analyzed: 7/1/2020					
Gasoline Range Organics	0.900000	0.20	0.05	1.00000		90.0	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.4153</i>			<i>0.400000</i>		<i>104</i>	<i>70 - 130</i>			
<b>LCS Dup (B0G0001-BSD1)</b>										
					Prepared: 7/1/2020 Analyzed: 7/1/2020					
Gasoline Range Organics	0.959000	0.20	0.05	1.00000		95.9	70 - 130	6.35	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.4200</i>			<i>0.400000</i>		<i>105</i>	<i>70 - 130</i>			



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### Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0G0002 - GCVOA_S</b>										
<b>Blank (B0G0002-BLK1)</b>										
					Prepared: 7/1/2020 Analyzed: 7/1/2020					
C4-C12	ND	1.0	0.20							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.4044</i>			<i>0.400000</i>		<i>101</i>	<i>45 - 149</i>			
<b>LCS (B0G0002-BS1)</b>										
					Prepared: 7/1/2020 Analyzed: 7/1/2020					
Gasoline Range Organics	4.92600	1.0	0.20	5.00000		98.5	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.3913</i>			<i>0.400000</i>		<i>97.8</i>	<i>45 - 149</i>			
<b>Matrix Spike (B0G0002-MS1)</b>										
					<b>Source: 2001528-01</b>		Prepared: 7/1/2020 Analyzed: 7/1/2020			
Gasoline Range Organics	4.64100	1.0	0.20	5.00000	ND	92.8	24 - 129			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.3552</i>			<i>0.400000</i>		<i>88.8</i>	<i>45 - 149</i>			
<b>Matrix Spike Dup (B0G0002-MSD1)</b>										
					<b>Source: 2001528-01</b>		Prepared: 7/1/2020 Analyzed: 7/1/2020			
Gasoline Range Organics	3.34100	1.0	0.20	5.00000	ND	66.8	24 - 129	32.6	20	R2
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.3474</i>			<i>0.400000</i>		<i>86.8</i>	<i>45 - 149</i>			



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### Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0G0018 - GCVOA_S</b>										
<b>Blank (B0G0018-BLK1)</b>										
					Prepared: 7/1/2020 Analyzed: 7/1/2020					
C4-C12	ND	1.0	0.20							
<i>Surrogate: 4-Bromofluorobenzene</i>	0.3736			0.400000		93.4	45 - 149			
<b>LCS (B0G0018-BS1)</b>										
					Prepared: 7/1/2020 Analyzed: 7/1/2020					
Gasoline Range Organics	5.12600	1.0	0.20	5.00000		103	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.4023			0.400000		101	45 - 149			
<b>Matrix Spike (B0G0018-MS1)</b>										
					<b>Source: 2001528-19</b>		Prepared: 7/1/2020 Analyzed: 7/1/2020			
Gasoline Range Organics	4.78700	1.0	0.20	5.00000	ND	95.7	24 - 129			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.3783			0.400000		94.6	45 - 149			
<b>Matrix Spike Dup (B0G0018-MSD1)</b>										
					<b>Source: 2001528-19</b>		Prepared: 7/1/2020 Analyzed: 7/1/2020			
Gasoline Range Organics	4.84000	1.0	0.20	5.00000	ND	96.8	24 - 129	1.10	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.3849			0.400000		96.2	45 - 149			



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
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 Reported : 07/16/2020

### Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0625 - GCSEMI\_DRO\_W**

**Blank (B0F0625-BLK1)**

Prepared: 6/29/2020 Analyzed: 7/1/2020

C13-C14	ND	0.05	0.05						
C13-C40 Total	ND	0.05	0.05						
C15-C16	ND	0.05	0.05						
C17-C18	ND	0.05	0.05						
C19-C20	ND	0.05	0.05						
C21-C22	ND	0.05	0.05						
C23-C24	ND	0.05	0.05						
C23-C40	ND	0.05	0.05						
C25-C26	ND	0.05	0.05						
C27-C28	ND	0.05	0.05						
C29-C32	ND	0.05	0.05						
C33-C36	ND	0.05	0.05						
C37-C40	ND	0.05	0.05						

<i>Surrogate: p-Terphenyl</i>	0.09726			8.00000E-2	122	32 - 169
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**LCS (B0F0625-BS1)**

Prepared: 6/29/2020 Analyzed: 7/1/2020

DRO	0.817690	0.05	0.05	1.00000	81.8	45 - 161
<i>Surrogate: p-Terphenyl</i>	0.07532			8.00000E-2	94.2	32 - 169

**LCS Dup (B0F0625-BSD1)**

Prepared: 6/29/2020 Analyzed: 7/1/2020

DRO	0.886960	0.05	0.05	1.00000	88.7	45 - 161	8.13	20
<i>Surrogate: p-Terphenyl</i>	0.07305			8.00000E-2	91.3	32 - 169		



## Certificate of Analysis

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Project Number : New Dock  
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 Reported : 07/16/2020

### Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0F0641 - GCSEMI_DRO_LL_S</b>										
<b>Blank (B0F0641-BLK1)</b>					Prepared: 6/29/2020 Analyzed: 7/1/2020					
C13-C14	ND	1.0	1.0							
C13-C40 Total	ND	1.0	1.0							
C15-C16	ND	1.0	1.0							
C17-C18	ND	1.0	1.0							
C19-C20	ND	1.0	1.0							
C21-C22	ND	1.0	1.0							
C23-C24	ND	1.0	1.0							
C25-C26	ND	1.0	1.0							
C27-C28	ND	1.0	1.0							
C29-C32	ND	1.0	1.0							
C33-C36	ND	1.0	1.0							
C37-C40	ND	1.0	1.0							
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<i>Surrogate: p-Terphenyl</i>	2.347			2.66667		88.0	15 - 110			
<b>LCS (B0F0641-BS1)</b>					Prepared: 6/29/2020 Analyzed: 7/1/2020					
DRO	32.6227	1.0	1.0	33.3333		97.9	30 - 116			
<i>Surrogate: p-Terphenyl</i>	2.249			2.66667		84.3	15 - 110			
<b>Matrix Spike (B0F0641-MS1)</b>					<b>Source: 2001528-01</b>			Prepared: 6/29/2020 Analyzed: 7/1/2020		
DRO	857.827	10	10	33.3333	547.250	932	0 - 120			M2
<i>Surrogate: p-Terphenyl</i>	1.933			2.66667		72.5	15 - 110			
<b>Matrix Spike Dup (B0F0641-MSD1)</b>					<b>Source: 2001528-01</b>			Prepared: 6/29/2020 Analyzed: 7/1/2020		
DRO	991.860	10	10	33.3333	547.250	1330	0 - 120	14.5	20	M2
<i>Surrogate: p-Terphenyl</i>	2.050			2.66667		76.9	15 - 110			



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
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 Reported : 07/16/2020

### Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0G0163 - GCSEMI\_PCB/PEST\_S**

**Blank (B0G0163-BLK1)**

Prepared: 7/9/2020 Analyzed: 7/16/2020

Aroclor 1016	ND	16	1.9
Aroclor 1221	ND	16	1.9
Aroclor 1232	ND	16	1.9
Aroclor 1242	ND	16	1.9
Aroclor 1248	ND	16	1.9
Aroclor 1254	ND	16	1.9
Aroclor 1260	ND	16	1.9
Aroclor 1262	ND	16	1.9
Aroclor 1268	ND	16	1.9

<i>Surrogate: Decachlorobiphenyl</i>	13.63		16.6667	81.8	21 - 94
<i>Surrogate: Tetrachloro-m-xylene</i>	15.44		16.6667	92.7	28 - 95

**LCS (B0G0163-BS1)**

Prepared: 7/9/2020 Analyzed: 7/16/2020

Aroclor 1016	145.473	16	1.9	166.667	87.3	45 - 98
Aroclor 1260	138.933	16	1.9	166.667	83.4	43 - 108
<i>Surrogate: Decachlorobiphenyl</i>	12.11		16.6667	72.7	21 - 94	
<i>Surrogate: Tetrachloro-m-xylene</i>	13.89		16.6667	83.3	28 - 95	

**Matrix Spike (B0G0163-MS1)**

**Source: 2001528-06**

Prepared: 7/9/2020 Analyzed: 7/16/2020

Aroclor 1016	99.6157	16	1.9	166.667	ND	59.8	15 - 125
Aroclor 1260	97.4925	16	1.9	166.667	ND	58.5	18 - 117
<i>Surrogate: Decachlorobiphenyl</i>	7.227		16.6667	43.4	21 - 94		
<i>Surrogate: Tetrachloro-m-xylene</i>	8.286		16.6667	49.7	28 - 95		

**Matrix Spike Dup (B0G0163-MSD1)**

**Source: 2001528-06**

Prepared: 7/9/2020 Analyzed: 7/16/2020

Aroclor 1016	94.4130	16	1.9	166.667	ND	56.6	15 - 125	5.36	20
Aroclor 1260	93.6727	16	1.9	166.667	ND	56.2	18 - 117	4.00	20
<i>Surrogate: Decachlorobiphenyl</i>	6.502		16.6667	39.0	21 - 94				
<i>Surrogate: Tetrachloro-m-xylene</i>	8.092		16.6667	48.6	28 - 95				



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
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 Reported : 07/16/2020

### Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0579 - MSVOA\_LL\_W**

**Blank (B0F0579-BLK1)**

Prepared: 6/26/2020 Analyzed: 6/26/2020

1,1,1,2-Tetrachloroethane	ND	0.50	0.11
1,1,1-Trichloroethane	ND	0.50	0.21
1,1,2,2-Tetrachloroethane	ND	0.50	0.36
1,1,2-Trichloroethane	ND	0.50	0.25
1,1-Dichloroethane	ND	0.50	0.09
1,1-Dichloroethene	ND	0.50	0.13
1,1-Dichloropropene	ND	0.50	0.13
1,2,3-Trichloropropane	ND	0.50	0.39
1,2,3-Trichlorobenzene	ND	0.50	0.18
1,2,4-Trichlorobenzene	ND	0.50	0.16
1,2,4-Trimethylbenzene	ND	0.50	0.14
1,2-Dibromo-3-chloropropane	ND	0.50	0.41
1,2-Dibromoethane	ND	0.50	0.24
1,2-Dichlorobenzene	ND	0.50	0.20
1,2-Dichloroethane	ND	0.50	0.20
1,2-Dichloropropane	ND	0.50	0.15
1,3,5-Trimethylbenzene	ND	0.50	0.13
1,3-Dichlorobenzene	ND	0.50	0.16
1,3-Dichloropropane	ND	0.50	0.21
1,4-Dichlorobenzene	ND	0.50	0.17
2,2-Dichloropropane	ND	0.50	0.38
2-Chlorotoluene	ND	0.50	0.11
4-Chlorotoluene	ND	0.50	0.12
4-Isopropyltoluene	ND	0.50	0.11
Benzene	ND	0.50	0.13
Bromobenzene	ND	0.50	0.21
Bromochloromethane	ND	0.50	0.16
Bromodichloromethane	ND	0.50	0.14
Bromoform	ND	0.50	0.20
Bromomethane	ND	0.50	0.40
Carbon disulfide	ND	1.0	0.07
Carbon tetrachloride	ND	0.50	0.09
Chlorobenzene	ND	0.50	0.13
Chloroethane	ND	0.50	0.15
Chloroform	ND	0.50	0.11
Chloromethane	ND	0.50	0.12
cis-1,2-Dichloroethene	ND	0.50	0.14
cis-1,3-Dichloropropene	ND	0.50	0.13
Di-isopropyl ether	ND	0.50	0.15
Dibromochloromethane	ND	0.50	0.16





## Certificate of Analysis

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Project Number : New Dock  
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 Reported : 07/16/2020

### Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0579 - MSVOA\_LL\_W (continued)**

**Blank (B0F0579-BLK1) - Continued**

Prepared: 6/26/2020 Analyzed: 6/26/2020

Dibromomethane	ND	0.50	0.19						
Dichlorodifluoromethane	ND	0.50	0.18						
Ethyl Acetate	ND	10	8.7						
Ethyl Ether	ND	10	2.0						
Ethyl tert-butyl ether	ND	0.50	0.21						
Ethylbenzene	ND	0.50	0.13						
Freon-113	ND	0.50	0.13						
Hexachlorobutadiene	ND	0.50	0.15						
Isopropylbenzene	ND	0.50	0.10						
m,p-Xylene	ND	1.0	0.19						
Methylene chloride	ND	1.0	0.71						
MTBE	ND	0.50	0.26						
n-Butylbenzene	ND	0.50	0.11						
n-Propylbenzene	ND	0.50	0.10						
Naphthalene	ND	0.50	0.41						
o-Xylene	ND	0.50	0.13						
sec-Butylbenzene	ND	0.50	0.09						
Styrene	ND	0.50	0.13						
tert-Amyl methyl ether	ND	0.50	0.41						
tert-Butanol	ND	10	2.4						
tert-Butylbenzene	ND	0.50	0.09						
Tetrachloroethene	ND	0.50	0.10						
Toluene	ND	0.50	0.12						
trans-1,2-Dichloroethene	ND	0.50	0.09						
trans-1,3-Dichloropropene	ND	0.50	0.23						
Trichloroethene	ND	0.50	0.10						
Trichlorofluoromethane	ND	0.50	0.23						
Vinyl acetate	ND	10	1.7						
Vinyl chloride	ND	0.50	0.13						

<i>Surrogate: 1,2-Dichloroethane-d4</i>	29.23		25.0000		117	59 - 158
<i>Surrogate: 4-Bromofluorobenzene</i>	23.31		25.0000		93.2	71 - 127
<i>Surrogate: Dibromofluoromethane</i>	25.99		25.0000		104	66 - 147
<i>Surrogate: Toluene-d8</i>	24.64		25.0000		98.6	77 - 138

**LCS (B0F0579-BS1)**

Prepared: 6/26/2020 Analyzed: 6/26/2020

1,1,1,2-Tetrachloroethane	19.8300	0.50	0.11	20.0000	99.2	71 - 133
1,1,1-Trichloroethane	20.3200	0.50	0.21	20.0000	102	62 - 124
1,1,2,2-Tetrachloroethane	17.8400	0.50	0.36	20.0000	89.2	50 - 131
1,1,2-Trichloroethane	20.4600	0.50	0.25	20.0000	102	77 - 121
1,1-Dichloroethane	21.4700	0.50	0.09	20.0000	107	52 - 130



# Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock  
 Report To : Jorge Perez  
 Reported : 07/16/2020

## Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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### Batch B0F0579 - MSVOA\_LL\_W (continued)

#### LCS (B0F0579-BS1) - Continued

Prepared: 6/26/2020 Analyzed: 6/26/2020

1,1-Dichloroethene	20.2000	0.50	0.13	20.0000		101	61 - 136			
1,1-Dichloropropene	20.8200	0.50	0.13	20.0000		104	80 - 128			
1,2,3-Trichloropropane	19.1900	0.50	0.39	20.0000		96.0	59 - 126			
1,2,3-Trichlorobenzene	15.5800	0.50	0.18	20.0000		77.9	69 - 138			
1,2,4-Trichlorobenzene	16.2800	0.50	0.16	20.0000		81.4	78 - 125			
1,2,4-Trimethylbenzene	20.2300	0.50	0.14	20.0000		101	70 - 126			
1,2-Dibromo-3-chloropropane	18.4900	0.50	0.41	20.0000		92.4	58 - 127			
1,2-Dibromoethane	20.0300	0.50	0.24	20.0000		100	76 - 120			
1,2-Dichlorobenzene	19.0900	0.50	0.20	20.0000		95.4	82 - 117			
1,2-Dichloroethane	20.7700	0.50	0.20	20.0000		104	66 - 126			
1,2-Dichloropropane	21.0800	0.50	0.15	20.0000		105	70 - 117			
1,3,5-Trimethylbenzene	19.6100	0.50	0.13	20.0000		98.0	71 - 125			
1,3-Dichlorobenzene	19.0600	0.50	0.16	20.0000		95.3	81 - 116			
1,3-Dichloropropane	19.3400	0.50	0.21	20.0000		96.7	69 - 124			
1,4-Dichlorobenzene	19.0200	0.50	0.17	20.0000		95.1	80 - 114			
2,2-Dichloropropane	23.6300	0.50	0.38	20.0000		118	58 - 132			
2-Chlorotoluene	18.5300	0.50	0.11	20.0000		92.6	71 - 119			
4-Chlorotoluene	19.7300	0.50	0.12	20.0000		98.6	72 - 122			
4-Isopropyltoluene	20.6300	0.50	0.11	20.0000		103	69 - 126			
Benzene	20.8700	0.50	0.13	20.0000		104	80 - 116			
Bromobenzene	17.1600	0.50	0.21	20.0000		85.8	77 - 118			
Bromochloromethane	20.6900	0.50	0.16	20.0000		103	68 - 121			
Bromodichloromethane	20.2200	0.50	0.14	20.0000		101	73 - 118			
Bromoform	18.9200	0.50	0.20	20.0000		94.6	65 - 133			
Bromomethane	17.4000	0.50	0.40	20.0000		87.0	7 - 205			
Carbon disulfide	21.5400	1.0	0.07	20.0000		108	55 - 131			
Carbon tetrachloride	21.2900	0.50	0.09	20.0000		106	63 - 133			
Chlorobenzene	19.2100	0.50	0.13	20.0000		96.0	86 - 113			
Chloroethane	19.7600	0.50	0.15	20.0000		98.8	66 - 141			
Chloroform	20.6300	0.50	0.11	20.0000		103	63 - 127			
Chloromethane	17.0300	0.50	0.12	20.0000		85.2	0 - 207			
cis-1,2-Dichloroethene	20.3700	0.50	0.14	20.0000		102	64 - 126			
cis-1,3-Dichloropropene	21.5700	0.50	0.13	20.0000		108	70 - 141			
Di-isopropyl ether	23.3700	0.50	0.15	20.0000		117	56 - 131			
Dibromochloromethane	20.2200	0.50	0.16	20.0000		101	67 - 135			
Dibromomethane	20.6400	0.50	0.19	20.0000		103	74 - 118			
Dichlorodifluoromethane	9.05000	0.50	0.18	20.0000		45.2	14 - 181			
Ethyl Acetate	231.590	10	8.7	200.000		116	49 - 128			
Ethyl Ether	209.150	10	2.0	200.000		105	53 - 143			
Ethyl tert-butyl ether	21.7500	0.50	0.21	20.0000		109	54 - 132			



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

### Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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#### Batch B0F0579 - MSVOA\_LL\_W (continued)

##### LCS (B0F0579-BS1) - Continued

Prepared: 6/26/2020 Analyzed: 6/26/2020

Ethylbenzene	19.8400	0.50	0.13	20.0000		99.2	77 - 118			
Freon-113	19.0500	0.50	0.13	20.0000		95.2	68 - 145			
Hexachlorobutadiene	18.5100	0.50	0.15	20.0000		92.6	66 - 125			
Isopropylbenzene	18.3600	0.50	0.10	20.0000		91.8	68 - 137			
m,p-Xylene	40.0500	1.0	0.19	40.0000		100	78 - 126			
Methylene chloride	19.4200	1.0	0.71	20.0000		97.1	51 - 149			
MTBE	18.3000	0.50	0.26	20.0000		91.5	63 - 128			
n-Butylbenzene	19.1700	0.50	0.11	20.0000		95.8	63 - 127			
n-Propylbenzene	19.3600	0.50	0.10	20.0000		96.8	69 - 124			
Naphthalene	14.0500	0.50	0.41	20.0000		70.2	60 - 126			
o-Xylene	19.5200	0.50	0.13	20.0000		97.6	79 - 126			
sec-Butylbenzene	19.1500	0.50	0.09	20.0000		95.8	69 - 124			
Styrene	22.7800	0.50	0.13	20.0000		114	80 - 127			
tert-Amyl methyl ether	20.6400	0.50	0.41	20.0000		103	49 - 130			
tert-Butanol	101.160	10	2.4	100.000		101	29 - 163			
tert-Butylbenzene	18.3500	0.50	0.09	20.0000		91.8	71 - 124			
Tetrachloroethene	18.9700	0.50	0.10	20.0000		94.8	73 - 129			
Toluene	20.1400	0.50	0.12	20.0000		101	78 - 121			
trans-1,2-Dichloroethene	21.1000	0.50	0.09	20.0000		106	58 - 141			
trans-1,3-Dichloropropene	22.1500	0.50	0.23	20.0000		111	68 - 128			
Trichloroethene	19.1100	0.50	0.10	20.0000		95.6	73 - 126			
Trichlorofluoromethane	19.0200	0.50	0.23	20.0000		95.1	62 - 146			
Vinyl acetate	249.330	10	1.7	200.000		125	53 - 153			
Vinyl chloride	16.9700	0.50	0.13	20.0000		84.8	61 - 137			
Surrogate: 1,2-Dichloroethane-d4	26.76			25.0000		107	59 - 158			
Surrogate: 4-Bromofluorobenzene	25.67			25.0000		103	71 - 127			
Surrogate: Dibromofluoromethane	25.54			25.0000		102	66 - 147			
Surrogate: Toluene-d8	25.45			25.0000		102	77 - 138			

##### LCS Dup (B0F0579-BS1)

Prepared: 6/26/2020 Analyzed: 6/26/2020

1,1,1,2-Tetrachloroethane	21.1700	0.50	0.11	20.0000		106	71 - 133	6.54	20	
1,1,1-Trichloroethane	21.8700	0.50	0.21	20.0000		109	62 - 124	7.35	20	
1,1,2,2-Tetrachloroethane	19.5200	0.50	0.36	20.0000		97.6	50 - 131	8.99	20	
1,1,2-Trichloroethane	23.3900	0.50	0.25	20.0000		117	77 - 121	13.4	20	
1,1-Dichloroethane	21.5400	0.50	0.09	20.0000		108	52 - 130	0.326	20	
1,1-Dichloroethene	20.9800	0.50	0.13	20.0000		105	61 - 136	3.79	20	
1,1-Dichloropropene	21.9500	0.50	0.13	20.0000		110	80 - 128	5.28	20	
1,2,3-Trichloropropane	22.0100	0.50	0.39	20.0000		110	59 - 126	13.7	20	
1,2,3-Trichlorobenzene	17.5100	0.50	0.18	20.0000		87.6	69 - 138	11.7	20	
1,2,4-Trichlorobenzene	17.3800	0.50	0.16	20.0000		86.9	78 - 125	6.54	20	



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
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 Reported : 07/16/2020

### Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0579 - MSVOA\_LL\_W (continued)**

**LCS Dup (B0F0579-BSD1) - Continued**

Prepared: 6/26/2020 Analyzed: 6/26/2020

1,2,4-Trimethylbenzene	20.4100	0.50	0.14	20.0000		102	70 - 126	0.886	20	
1,2-Dibromo-3-chloropropane	23.7200	0.50	0.41	20.0000		119	58 - 127	24.8	20	R
1,2-Dibromoethane	22.9100	0.50	0.24	20.0000		115	76 - 120	13.4	20	
1,2-Dichlorobenzene	20.2600	0.50	0.20	20.0000		101	82 - 117	5.95	20	
1,2-Dichloroethane	22.8300	0.50	0.20	20.0000		114	66 - 126	9.45	20	
1,2-Dichloropropane	21.4600	0.50	0.15	20.0000		107	70 - 117	1.79	20	
1,3,5-Trimethylbenzene	19.4400	0.50	0.13	20.0000		97.2	71 - 125	0.871	20	
1,3-Dichlorobenzene	19.6300	0.50	0.16	20.0000		98.2	81 - 116	2.95	20	
1,3-Dichloropropane	22.3700	0.50	0.21	20.0000		112	69 - 124	14.5	20	
1,4-Dichlorobenzene	19.9100	0.50	0.17	20.0000		99.6	80 - 114	4.57	20	
2,2-Dichloropropane	24.2900	0.50	0.38	20.0000		121	58 - 132	2.75	20	
2-Chlorotoluene	19.0000	0.50	0.11	20.0000		95.0	71 - 119	2.50	20	
4-Chlorotoluene	19.7300	0.50	0.12	20.0000		98.6	72 - 122	0.00	20	
4-Isopropyltoluene	20.6700	0.50	0.11	20.0000		103	69 - 126	0.194	20	
Benzene	22.1900	0.50	0.13	20.0000		111	80 - 116	6.13	20	
Bromobenzene	19.1800	0.50	0.21	20.0000		95.9	77 - 118	11.1	20	
Bromochloromethane	22.1900	0.50	0.16	20.0000		111	68 - 121	7.00	20	
Bromodichloromethane	21.6300	0.50	0.14	20.0000		108	73 - 118	6.74	20	
Bromoform	22.1700	0.50	0.20	20.0000		111	65 - 133	15.8	20	
Bromomethane	16.8400	0.50	0.40	20.0000		84.2	7 - 205	3.27	20	
Carbon disulfide	21.5900	1.0	0.07	20.0000		108	55 - 131	0.232	20	
Carbon tetrachloride	22.5000	0.50	0.09	20.0000		112	63 - 133	5.53	20	
Chlorobenzene	20.8300	0.50	0.13	20.0000		104	86 - 113	8.09	20	
Chloroethane	21.4900	0.50	0.15	20.0000		107	66 - 141	8.39	20	
Chloroform	22.5100	0.50	0.11	20.0000		113	63 - 127	8.72	20	
Chloromethane	17.4600	0.50	0.12	20.0000		87.3	0 - 207	2.49	20	
cis-1,2-Dichloroethene	21.4100	0.50	0.14	20.0000		107	64 - 126	4.98	20	
cis-1,3-Dichloropropene	23.4000	0.50	0.13	20.0000		117	70 - 141	8.14	20	
Di-isopropyl ether	24.8100	0.50	0.15	20.0000		124	56 - 131	5.98	20	
Dibromochloromethane	21.7800	0.50	0.16	20.0000		109	67 - 135	7.43	20	
Dibromomethane	22.0700	0.50	0.19	20.0000		110	74 - 118	6.70	20	
Dichlorodifluoromethane	8.41000	0.50	0.18	20.0000		42.0	14 - 181	7.33	20	
Ethyl Acetate	273.320	10	8.7	200.000		137	49 - 128	16.5	20	L4
Ethyl Ether	229.140	10	2.0	200.000		115	53 - 143	9.12	20	
Ethyl tert-butyl ether	24.2700	0.50	0.21	20.0000		121	54 - 132	11.0	20	
Ethylbenzene	20.5100	0.50	0.13	20.0000		103	77 - 118	3.32	20	
Freon-113	19.1600	0.50	0.13	20.0000		95.8	68 - 145	0.576	20	
Hexachlorobutadiene	18.3600	0.50	0.15	20.0000		91.8	66 - 125	0.814	20	
Isopropylbenzene	18.6700	0.50	0.10	20.0000		93.4	68 - 137	1.67	20	
m,p-Xylene	42.5400	1.0	0.19	40.0000		106	78 - 126	6.03	20	



## Certificate of Analysis

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### Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0579 - MSVOA\_LL\_W (continued)**

**LCS Dup (B0F0579-BSD1) - Continued**

Prepared: 6/26/2020 Analyzed: 6/26/2020

Methylene chloride	21.2200	1.0	0.71	20.0000		106	51 - 149	8.86	20	
MTBE	21.6600	0.50	0.26	20.0000		108	63 - 128	16.8	20	
n-Butylbenzene	19.1600	0.50	0.11	20.0000		95.8	63 - 127	0.0522	20	
n-Propylbenzene	18.8700	0.50	0.10	20.0000		94.4	69 - 124	2.56	20	
Naphthalene	16.2700	0.50	0.41	20.0000		81.4	60 - 126	14.6	20	
o-Xylene	20.8100	0.50	0.13	20.0000		104	79 - 126	6.40	20	
sec-Butylbenzene	19.3100	0.50	0.09	20.0000		96.6	69 - 124	0.832	20	
Styrene	24.5500	0.50	0.13	20.0000		123	80 - 127	7.48	20	
tert-Amyl methyl ether	23.8900	0.50	0.41	20.0000		119	49 - 130	14.6	20	
tert-Butanol	128.570	10	2.4	100.000		129	29 - 163	23.9	20	R
tert-Butylbenzene	18.2900	0.50	0.09	20.0000		91.4	71 - 124	0.328	20	
Tetrachloroethene	19.7500	0.50	0.10	20.0000		98.8	73 - 129	4.03	20	
Toluene	21.5400	0.50	0.12	20.0000		108	78 - 121	6.72	20	
trans-1,2-Dichloroethene	21.3900	0.50	0.09	20.0000		107	58 - 141	1.37	20	
trans-1,3-Dichloropropene	25.0900	0.50	0.23	20.0000		125	68 - 128	12.4	20	
Trichloroethene	20.5000	0.50	0.10	20.0000		102	73 - 126	7.02	20	
Trichlorofluoromethane	18.4100	0.50	0.23	20.0000		92.0	62 - 146	3.26	20	
Vinyl acetate	278.220	10	1.7	200.000		139	53 - 153	11.0	20	
Vinyl chloride	17.8300	0.50	0.13	20.0000		89.2	61 - 137	4.94	20	
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<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>27.43</i>			<i>25.0000</i>		<i>110</i>	<i>59 - 158</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>25.86</i>			<i>25.0000</i>		<i>103</i>	<i>71 - 127</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>25.39</i>			<i>25.0000</i>		<i>102</i>	<i>66 - 147</i>			
<i>Surrogate: Toluene-d8</i>	<i>25.38</i>			<i>25.0000</i>		<i>102</i>	<i>77 - 138</i>			



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
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 Reported : 07/16/2020

### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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#### Batch B0F0588 - MSVOA\_S

##### Blank (B0F0588-BLK1)

Prepared: 6/26/2020 Analyzed: 6/26/2020

1,1,1,2-Tetrachloroethane	ND	5.0	0.52
1,1,1-Trichloroethane	ND	5.0	0.26
1,1,2,2-Tetrachloroethane	ND	5.0	0.21
1,1,2-Trichloroethane	ND	5.0	0.40
1,1-Dichloroethane	ND	5.0	1.4
1,1-Dichloroethene	ND	5.0	1.9
1,1-Dichloropropene	ND	5.0	0.54
1,2,3-Trichloropropane	ND	5.0	0.40
1,2,3-Trichlorobenzene	ND	5.0	0.83
1,2,4-Trichlorobenzene	ND	5.0	0.80
1,2,4-Trimethylbenzene	ND	5.0	0.91
1,2-Dibromo-3-chloropropane	ND	10	1.1
1,2-Dibromoethane	ND	5.0	0.40
1,2-Dichlorobenzene	ND	5.0	0.21
1,2-Dichloroethane	ND	5.0	0.50
1,2-Dichloropropane	ND	5.0	0.46
1,3,5-Trimethylbenzene	ND	5.0	0.70
1,3-Dichlorobenzene	ND	5.0	0.36
1,3-Dichloropropane	ND	5.0	0.49
1,4-Dichlorobenzene	ND	5.0	0.27
2,2-Dichloropropane	ND	5.0	0.28
2-Chlorotoluene	ND	5.0	0.53
4-Chlorotoluene	ND	5.0	0.40
4-Isopropyltoluene	ND	5.0	0.81
Benzene	ND	5.0	0.36
Bromobenzene	ND	5.0	0.62
Bromochloromethane	ND	5.0	0.30
Bromodichloromethane	ND	5.0	0.52
Bromoform	ND	5.0	1.4
Bromomethane	ND	5.0	2.5
Carbon disulfide	ND	5.0	0.94
Carbon tetrachloride	ND	5.0	0.73
Chlorobenzene	ND	5.0	0.42
Chloroethane	ND	5.0	1.5
Chloroform	ND	5.0	0.24
Chloromethane	ND	5.0	1.1
cis-1,2-Dichloroethene	ND	5.0	0.20
cis-1,3-Dichloropropene	ND	5.0	0.39
Di-isopropyl ether	ND	5.0	1.9
Dibromochloromethane	ND	5.0	0.81



## Certificate of Analysis

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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0588 - MSVOA\_S (continued)**

**Blank (B0F0588-BLK1) - Continued**

Prepared: 6/26/2020 Analyzed: 6/26/2020

Dibromomethane	ND	5.0	0.23						
Dichlorodifluoromethane	ND	5.0	0.14						
Ethyl Acetate	ND	50	7.0						
Ethyl Ether	ND	50	17						
Ethyl tert-butyl ether	ND	5.0	0.85						
Ethylbenzene	ND	5.0	0.43						
Freon-113	ND	5.0	1.3						
Hexachlorobutadiene	ND	5.0	0.40						
Isopropylbenzene	ND	5.0	0.79						
m,p-Xylene	ND	10	0.98						
Methylene chloride	ND	5.0	2.2						
MTBE	ND	5.0	0.81						
n-Butylbenzene	ND	5.0	1.2						
n-Propylbenzene	ND	5.0	0.78						
Naphthalene	ND	5.0	1.1						
o-Xylene	ND	5.0	0.67						
sec-Butylbenzene	ND	5.0	0.63						
Styrene	ND	5.0	0.45						
tert-Amyl methyl ether	ND	5.0	1.1						
tert-Butanol	ND	100	11						
tert-Butylbenzene	ND	5.0	0.80						
Tetrachloroethene	ND	5.0	0.31						
Toluene	ND	5.0	0.27						
trans-1,2-Dichloroethene	ND	5.0	0.56						
trans-1,3-Dichloropropene	ND	5.0	0.59						
Trichloroethene	ND	5.0	0.32						
Trichlorofluoromethane	ND	5.0	1.0						
Vinyl acetate	ND	50	6.0						
Vinyl chloride	ND	5.0	0.92						

<i>Surrogate: 1,2-Dichloroethane-d4</i>	59.99		50.0000		120	58 - 160
<i>Surrogate: 4-Bromofluorobenzene</i>	50.98		50.0000		102	72 - 121
<i>Surrogate: Dibromofluoromethane</i>	58.53		50.0000		117	75 - 139
<i>Surrogate: Toluene-d8</i>	52.74		50.0000		105	84 - 115

**LCS (B0F0588-BS1)**

Prepared: 6/26/2020 Analyzed: 6/26/2020

1,1,1,2-Tetrachloroethane	51.3600	5.0	0.52	50.0000	103	80 - 114
1,1,1-Trichloroethane	54.4300	5.0	0.26	50.0000	109	71 - 127
1,1,2,2-Tetrachloroethane	44.3500	5.0	0.21	50.0000	88.7	73 - 113
1,1,2-Trichloroethane	54.8200	5.0	0.40	50.0000	110	78 - 112
1,1-Dichloroethane	54.0100	5.0	1.4	50.0000	108	73 - 123



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0588 - MSVOA\_S (continued)**

**LCS (B0F0588-BS1) - Continued**

Prepared: 6/26/2020 Analyzed: 6/26/2020

1,1-Dichloroethene	46.7200	5.0	1.9	50.0000		93.4	59 - 139
1,1-Dichloropropene	52.4100	5.0	0.54	50.0000		105	78 - 131
1,2,3-Trichloropropane	50.7000	5.0	0.40	50.0000		101	71 - 117
1,2,3-Trichlorobenzene	47.6100	5.0	0.83	50.0000		95.2	68 - 134
1,2,4-Trichlorobenzene	44.2900	5.0	0.80	50.0000		88.6	72 - 141
1,2,4-Trimethylbenzene	54.0000	5.0	0.91	50.0000		108	81 - 122
1,2-Dibromo-3-chloropropane	44.8600	10	1.1	50.0000		89.7	64 - 134
1,2-Dibromoethane	56.4700	5.0	0.40	50.0000		113	78 - 113
1,2-Dichlorobenzene	51.1400	5.0	0.21	50.0000		102	79 - 119
1,2-Dichloroethane	54.8100	5.0	0.50	50.0000		110	62 - 126
1,2-Dichloropropane	54.0500	5.0	0.46	50.0000		108	77 - 120
1,3,5-Trimethylbenzene	52.8300	5.0	0.70	50.0000		106	80 - 123
1,3-Dichlorobenzene	49.6400	5.0	0.36	50.0000		99.3	80 - 118
1,3-Dichloropropane	51.8000	5.0	0.49	50.0000		104	80 - 114
1,4-Dichlorobenzene	48.9000	5.0	0.27	50.0000		97.8	80 - 117
2,2-Dichloropropane	51.3000	5.0	0.28	50.0000		103	66 - 133
2-Chlorotoluene	49.6000	5.0	0.53	50.0000		99.2	79 - 117
4-Chlorotoluene	51.3000	5.0	0.40	50.0000		103	80 - 117
4-Isopropyltoluene	52.8400	5.0	0.81	50.0000		106	81 - 130
Benzene	55.1700	5.0	0.36	50.0000		110	79 - 116
Bromobenzene	48.8400	5.0	0.62	50.0000		97.7	76 - 113
Bromochloromethane	53.5500	5.0	0.30	50.0000		107	74 - 113
Bromodichloromethane	54.0400	5.0	0.52	50.0000		108	74 - 115
Bromoform	55.5000	5.0	1.4	50.0000		111	70 - 118
Bromomethane	60.1100	5.0	2.5	50.0000		120	41 - 170
Carbon disulfide	50.6200	5.0	0.94	50.0000		101	53 - 139
Carbon tetrachloride	50.5700	5.0	0.73	50.0000		101	71 - 131
Chlorobenzene	49.8800	5.0	0.42	50.0000		99.8	83 - 114
Chloroethane	52.6800	5.0	1.5	50.0000		105	61 - 165
Chloroform	53.8500	5.0	0.24	50.0000		108	73 - 117
Chloromethane	46.4900	5.0	1.1	50.0000		93.0	51 - 147
cis-1,2-Dichloroethene	54.4900	5.0	0.20	50.0000		109	73 - 121
cis-1,3-Dichloropropene	53.4600	5.0	0.39	50.0000		107	81 - 136
Di-isopropyl ether	56.2800	5.0	1.9	50.0000		113	66 - 126
Dibromochloromethane	49.3300	5.0	0.81	50.0000		98.7	77 - 114
Dibromomethane	50.5500	5.0	0.23	50.0000		101	78 - 110
Dichlorodifluoromethane	37.6100	5.0	0.14	50.0000		75.2	22 - 172
Ethyl Acetate	577.300	50	7.0	500.000		115	48 - 147
Ethyl Ether	533.380	50	17	500.000		107	40 - 155
Ethyl tert-butyl ether	47.3800	5.0	0.85	50.0000		94.8	50 - 150





## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
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Reported : 07/16/2020

### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0588 - MSVOA\_S (continued)**

**LCS (B0F0588-BS1) - Continued**

Prepared: 6/26/2020 Analyzed: 6/26/2020

Ethylbenzene	53.6200	5.0	0.43	50.0000		107	73 - 128			
Freon-113	44.9500	5.0	1.3	50.0000		89.9	60 - 144			
Hexachlorobutadiene	43.9600	5.0	0.40	50.0000		87.9	72 - 147			
Isopropylbenzene	50.2000	5.0	0.79	50.0000		100	79 - 134			
m,p-Xylene	111.510	10	0.98	100.000		112	79 - 128			
Methylene chloride	55.7200	5.0	2.2	50.0000		111	60 - 131			
MTBE	51.2300	5.0	0.81	50.0000		102	57 - 131			
n-Butylbenzene	50.4400	5.0	1.2	50.0000		101	82 - 134			
n-Propylbenzene	51.8600	5.0	0.78	50.0000		104	78 - 127			
Naphthalene	44.6100	5.0	1.1	50.0000		89.2	67 - 131			
o-Xylene	54.7400	5.0	0.67	50.0000		109	79 - 126			
sec-Butylbenzene	51.9700	5.0	0.63	50.0000		104	79 - 130			
Styrene	65.0500	5.0	0.45	50.0000		130	81 - 125			L5
tert-Amyl methyl ether	44.7900	5.0	1.1	50.0000		89.6	50 - 142			
tert-Butanol	266.390	100	11	250.000		107	0 - 168			
tert-Butylbenzene	51.6200	5.0	0.80	50.0000		103	80 - 126			
Tetrachloroethene	48.2300	5.0	0.31	50.0000		96.5	76 - 127			
Toluene	56.0100	5.0	0.27	50.0000		112	79 - 119			
trans-1,2-Dichloroethene	54.3200	5.0	0.56	50.0000		109	66 - 128			
trans-1,3-Dichloropropene	58.2000	5.0	0.59	50.0000		116	76 - 117			
Trichloroethene	53.9700	5.0	0.32	50.0000		108	81 - 120			
Trichlorofluoromethane	47.1000	5.0	1.0	50.0000		94.2	63 - 138			
Vinyl acetate	504.230	50	6.0	500.000		101	60 - 149			
Vinyl chloride	47.8400	5.0	0.92	50.0000		95.7	58 - 142			
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<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>55.76</i>			<i>50.0000</i>		<i>112</i>	<i>58 - 160</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>53.65</i>			<i>50.0000</i>		<i>107</i>	<i>72 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>56.39</i>			<i>50.0000</i>		<i>113</i>	<i>75 - 139</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.98</i>			<i>50.0000</i>		<i>108</i>	<i>84 - 115</i>			

**LCS Dup (B0F0588-BS1)**

Prepared: 6/26/2020 Analyzed: 6/26/2020

1,1,1,2-Tetrachloroethane	55.5400	5.0	0.52	50.0000		111	80 - 114	7.82	20	
1,1,1-Trichloroethane	48.8000	5.0	0.26	50.0000		97.6	71 - 127	10.9	20	
1,1,2,2-Tetrachloroethane	48.9700	5.0	0.21	50.0000		97.9	73 - 113	9.90	20	
1,1,2-Trichloroethane	52.6200	5.0	0.40	50.0000		105	78 - 112	4.10	20	
1,1-Dichloroethane	48.8700	5.0	1.4	50.0000		97.7	73 - 123	9.99	20	
1,1-Dichloroethene	43.1500	5.0	1.9	50.0000		86.3	59 - 139	7.94	20	
1,1-Dichloropropene	48.4600	5.0	0.54	50.0000		96.9	78 - 131	7.83	20	
1,2,3-Trichloropropane	52.5700	5.0	0.40	50.0000		105	71 - 117	3.62	20	
1,2,3-Trichlorobenzene	51.8300	5.0	0.83	50.0000		104	68 - 134	8.49	20	
1,2,4-Trichlorobenzene	46.6100	5.0	0.80	50.0000		93.2	72 - 141	5.10	20	



## Certificate of Analysis

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Project Number : New Dock  
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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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#### Batch B0F0588 - MSVOA\_S (continued)

#### LCS Dup (B0F0588-BSD1) - Continued

Prepared: 6/26/2020 Analyzed: 6/26/2020

1,2,4-Trimethylbenzene	57.3500	5.0	0.91	50.0000		115	81 - 122	6.02	20	
1,2-Dibromo-3-chloropropane	47.5900	10	1.1	50.0000		95.2	64 - 134	5.91	20	
1,2-Dibromoethane	50.2600	5.0	0.40	50.0000		101	78 - 113	11.6	20	
1,2-Dichlorobenzene	53.3400	5.0	0.21	50.0000		107	79 - 119	4.21	20	
1,2-Dichloroethane	50.5300	5.0	0.50	50.0000		101	62 - 126	8.13	20	
1,2-Dichloropropane	52.1600	5.0	0.46	50.0000		104	77 - 120	3.56	20	
1,3,5-Trimethylbenzene	56.9900	5.0	0.70	50.0000		114	80 - 123	7.58	20	
1,3-Dichlorobenzene	51.9100	5.0	0.36	50.0000		104	80 - 118	4.47	20	
1,3-Dichloropropane	51.5700	5.0	0.49	50.0000		103	80 - 114	0.445	20	
1,4-Dichlorobenzene	51.4400	5.0	0.27	50.0000		103	80 - 117	5.06	20	
2,2-Dichloropropane	47.1900	5.0	0.28	50.0000		94.4	66 - 133	8.35	20	
2-Chlorotoluene	53.9000	5.0	0.53	50.0000		108	79 - 117	8.31	20	
4-Chlorotoluene	52.9100	5.0	0.40	50.0000		106	80 - 117	3.09	20	
4-Isopropyltoluene	55.4800	5.0	0.81	50.0000		111	81 - 130	4.87	20	
Benzene	51.0800	5.0	0.36	50.0000		102	79 - 116	7.70	20	
Bromobenzene	49.9800	5.0	0.62	50.0000		100	76 - 113	2.31	20	
Bromochloromethane	52.3600	5.0	0.30	50.0000		105	74 - 113	2.25	20	
Bromodichloromethane	51.1100	5.0	0.52	50.0000		102	74 - 115	5.57	20	
Bromoform	53.3600	5.0	1.4	50.0000		107	70 - 118	3.93	20	
Bromomethane	51.8800	5.0	2.5	50.0000		104	41 - 170	14.7	20	
Carbon disulfide	46.4200	5.0	0.94	50.0000		92.8	53 - 139	8.66	20	
Carbon tetrachloride	47.3500	5.0	0.73	50.0000		94.7	71 - 131	6.58	20	
Chlorobenzene	51.1800	5.0	0.42	50.0000		102	83 - 114	2.57	20	
Chloroethane	48.3500	5.0	1.5	50.0000		96.7	61 - 165	8.57	20	
Chloroform	50.6600	5.0	0.24	50.0000		101	73 - 117	6.10	20	
Chloromethane	45.8300	5.0	1.1	50.0000		91.7	51 - 147	1.43	20	
cis-1,2-Dichloroethene	50.9200	5.0	0.20	50.0000		102	73 - 121	6.77	20	
cis-1,3-Dichloropropene	50.9800	5.0	0.39	50.0000		102	81 - 136	4.75	20	
Di-isopropyl ether	51.7500	5.0	1.9	50.0000		104	66 - 126	8.39	20	
Dibromochloromethane	51.5600	5.0	0.81	50.0000		103	77 - 114	4.42	20	
Dibromomethane	49.3800	5.0	0.23	50.0000		98.8	78 - 110	2.34	20	
Dichlorodifluoromethane	30.9800	5.0	0.14	50.0000		62.0	22 - 172	19.3	20	
Ethyl Acetate	532.580	50	7.0	500.000		107	48 - 147	8.06	20	
Ethyl Ether	474.920	50	17	500.000		95.0	40 - 155	11.6	20	
Ethyl tert-butyl ether	43.2900	5.0	0.85	50.0000		86.6	50 - 150	9.02	20	
Ethylbenzene	55.3700	5.0	0.43	50.0000		111	73 - 128	3.21	20	
Freon-113	41.0100	5.0	1.3	50.0000		82.0	60 - 144	9.17	20	
Hexachlorobutadiene	44.1900	5.0	0.40	50.0000		88.4	72 - 147	0.522	20	
Isopropylbenzene	54.1000	5.0	0.79	50.0000		108	79 - 134	7.48	20	
m,p-Xylene	112.060	10	0.98	100.000		112	79 - 128	0.492	20	



## Certificate of Analysis

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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0F0588 - MSVOA_S (continued)</b>										
<b>LCS Dup (B0F0588-BSD1) - Continued</b>					Prepared: 6/26/2020 Analyzed: 6/26/2020					
Methylene chloride	53.0200	5.0	2.2	50.0000		106	60 - 131	4.97	20	
MTBE	45.5900	5.0	0.81	50.0000		91.2	57 - 131	11.7	20	
n-Butylbenzene	52.6700	5.0	1.2	50.0000		105	82 - 134	4.33	20	
n-Propylbenzene	55.2800	5.0	0.78	50.0000		111	78 - 127	6.38	20	
Naphthalene	46.3600	5.0	1.1	50.0000		92.7	67 - 131	3.85	20	
o-Xylene	56.8300	5.0	0.67	50.0000		114	79 - 126	3.75	20	
sec-Butylbenzene	55.3500	5.0	0.63	50.0000		111	79 - 130	6.30	20	
Styrene	65.6900	5.0	0.45	50.0000		131	81 - 125	0.979	20	L5
tert-Amyl methyl ether	38.8700	5.0	1.1	50.0000		77.7	50 - 142	14.2	20	
tert-Butanol	248.240	100	11	250.000		99.3	0 - 168	7.05	20	
tert-Butylbenzene	53.6400	5.0	0.80	50.0000		107	80 - 126	3.84	20	
Tetrachloroethene	48.6900	5.0	0.31	50.0000		97.4	76 - 127	0.949	20	
Toluene	53.6300	5.0	0.27	50.0000		107	79 - 119	4.34	20	
trans-1,2-Dichloroethene	50.2800	5.0	0.56	50.0000		101	66 - 128	7.72	20	
trans-1,3-Dichloropropene	52.5000	5.0	0.59	50.0000		105	76 - 117	10.3	20	
Trichloroethene	49.3200	5.0	0.32	50.0000		98.6	81 - 120	9.00	20	
Trichlorofluoromethane	40.1900	5.0	1.0	50.0000		80.4	63 - 138	15.8	20	
Vinyl acetate	524.750	50	6.0	500.000		105	60 - 149	3.99	20	
Vinyl chloride	45.8700	5.0	0.92	50.0000		91.7	58 - 142	4.20	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.81</i>			<i>50.0000</i>		<i>102</i>	<i>58 - 160</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.40</i>			<i>50.0000</i>		<i>105</i>	<i>72 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.77</i>			<i>50.0000</i>		<i>102</i>	<i>75 - 139</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.66</i>			<i>50.0000</i>		<i>105</i>	<i>84 - 115</i>			



## Certificate of Analysis

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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0617 - MSVOA\_S**

**Blank (B0F0617-BLK1)**

Prepared: 6/29/2020 Analyzed: 6/29/2020

1,1,1,2-Tetrachloroethane	ND	5.0	0.52
1,1,1-Trichloroethane	ND	5.0	0.26
1,1,2,2-Tetrachloroethane	ND	5.0	0.21
1,1,2-Trichloroethane	ND	5.0	0.40
1,1-Dichloroethane	ND	5.0	1.4
1,1-Dichloroethene	ND	5.0	1.9
1,1-Dichloropropene	ND	5.0	0.54
1,2,3-Trichloropropane	ND	5.0	0.40
1,2,3-Trichlorobenzene	ND	5.0	0.83
1,2,4-Trichlorobenzene	ND	5.0	0.80
1,2,4-Trimethylbenzene	ND	5.0	0.91
1,2-Dibromo-3-chloropropane	ND	10	1.1
1,2-Dibromoethane	ND	5.0	0.40
1,2-Dichlorobenzene	ND	5.0	0.21
1,2-Dichloroethane	ND	5.0	0.50
1,2-Dichloropropane	ND	5.0	0.46
1,3,5-Trimethylbenzene	ND	5.0	0.70
1,3-Dichlorobenzene	ND	5.0	0.36
1,3-Dichloropropane	ND	5.0	0.49
1,4-Dichlorobenzene	ND	5.0	0.27
2,2-Dichloropropane	ND	5.0	0.28
2-Chlorotoluene	ND	5.0	0.53
4-Chlorotoluene	ND	5.0	0.40
4-Isopropyltoluene	ND	5.0	0.81
Benzene	ND	5.0	0.36
Bromobenzene	ND	5.0	0.62
Bromochloromethane	ND	5.0	0.30
Bromodichloromethane	ND	5.0	0.52
Bromoform	ND	5.0	1.4
Bromomethane	ND	5.0	2.5
Carbon disulfide	ND	5.0	0.94
Carbon tetrachloride	ND	5.0	0.73
Chlorobenzene	ND	5.0	0.42
Chloroethane	ND	5.0	1.5
Chloroform	ND	5.0	0.24
Chloromethane	ND	5.0	1.1
cis-1,2-Dichloroethene	ND	5.0	0.20
cis-1,3-Dichloropropene	ND	5.0	0.39
Di-isopropyl ether	ND	5.0	1.9
Dibromochloromethane	ND	5.0	0.81



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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Batch B0F0617 - MSVOA\_S (continued)**

**Blank (B0F0617-BLK1) - Continued**

Prepared: 6/29/2020 Analyzed: 6/29/2020

Dibromomethane	ND	5.0	0.23						
Dichlorodifluoromethane	ND	5.0	0.14						
Ethyl Acetate	ND	50	7.0						
Ethyl Ether	ND	50	17						
Ethyl tert-butyl ether	ND	5.0	0.85						
Ethylbenzene	ND	5.0	0.43						
Freon-113	ND	5.0	1.3						
Hexachlorobutadiene	ND	5.0	0.40						
Isopropylbenzene	ND	5.0	0.79						
m,p-Xylene	ND	10	0.98						
Methylene chloride	ND	5.0	2.2						
MTBE	ND	5.0	0.81						
n-Butylbenzene	ND	5.0	1.2						
n-Propylbenzene	ND	5.0	0.78						
Naphthalene	ND	5.0	1.1						
o-Xylene	ND	5.0	0.67						
sec-Butylbenzene	ND	5.0	0.63						
Styrene	ND	5.0	0.45						
tert-Amyl methyl ether	ND	5.0	1.1						
tert-Butanol	ND	100	11						
tert-Butylbenzene	ND	5.0	0.80						
Tetrachloroethene	ND	5.0	0.31						
Toluene	ND	5.0	0.27						
trans-1,2-Dichloroethene	ND	5.0	0.56						
trans-1,3-Dichloropropene	ND	5.0	0.59						
Trichloroethene	ND	5.0	0.32						
Trichlorofluoromethane	ND	5.0	1.0						
Vinyl acetate	ND	50	6.0						
Vinyl chloride	ND	5.0	0.92						

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52.19</i>		<i>50.0000</i>		<i>104</i>	<i>58 - 160</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.24</i>		<i>50.0000</i>		<i>96.5</i>	<i>72 - 121</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>53.20</i>		<i>50.0000</i>		<i>106</i>	<i>75 - 139</i>
<i>Surrogate: Toluene-d8</i>	<i>51.45</i>		<i>50.0000</i>		<i>103</i>	<i>84 - 115</i>

**LCS (B0F0617-BS1)**

Prepared: 6/29/2020 Analyzed: 6/29/2020

1,1,1,2-Tetrachloroethane	53.3400	5.0	0.52	50.0000	107	80 - 114
1,1,1-Trichloroethane	60.3800	5.0	0.26	50.0000	121	71 - 127
1,1,2,2-Tetrachloroethane	52.6400	5.0	0.21	50.0000	105	73 - 113
1,1,2-Trichloroethane	54.4000	5.0	0.40	50.0000	109	78 - 112
1,1-Dichloroethane	55.0800	5.0	1.4	50.0000	110	73 - 123



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0617 - MSVOA\_S (continued)**

**LCS (B0F0617-BS1) - Continued**

Prepared: 6/29/2020 Analyzed: 6/29/2020

1,1-Dichloroethene	49.1200	5.0	1.9	50.0000		98.2	59 - 139
1,1-Dichloropropene	58.1400	5.0	0.54	50.0000		116	78 - 131
1,2,3-Trichloropropane	52.5200	5.0	0.40	50.0000		105	71 - 117
1,2,3-Trichlorobenzene	55.1000	5.0	0.83	50.0000		110	68 - 134
1,2,4-Trichlorobenzene	53.5600	5.0	0.80	50.0000		107	72 - 141
1,2,4-Trimethylbenzene	60.3700	5.0	0.91	50.0000		121	81 - 122
1,2-Dibromo-3-chloropropane	46.7100	10	1.1	50.0000		93.4	64 - 134
1,2-Dibromoethane	54.3300	5.0	0.40	50.0000		109	78 - 113
1,2-Dichlorobenzene	51.7100	5.0	0.21	50.0000		103	79 - 119
1,2-Dichloroethane	54.2700	5.0	0.50	50.0000		109	62 - 126
1,2-Dichloropropane	53.4000	5.0	0.46	50.0000		107	77 - 120
1,3,5-Trimethylbenzene	59.8000	5.0	0.70	50.0000		120	80 - 123
1,3-Dichlorobenzene	54.2000	5.0	0.36	50.0000		108	80 - 118
1,3-Dichloropropane	52.5700	5.0	0.49	50.0000		105	80 - 114
1,4-Dichlorobenzene	53.3000	5.0	0.27	50.0000		107	80 - 117
2,2-Dichloropropane	60.4600	5.0	0.28	50.0000		121	66 - 133
2-Chlorotoluene	55.6400	5.0	0.53	50.0000		111	79 - 117
4-Chlorotoluene	57.4200	5.0	0.40	50.0000		115	80 - 117
4-Isopropyltoluene	61.6100	5.0	0.81	50.0000		123	81 - 130
Benzene	55.8000	5.0	0.36	50.0000		112	79 - 116
Bromobenzene	52.0200	5.0	0.62	50.0000		104	76 - 113
Bromochloromethane	55.8500	5.0	0.30	50.0000		112	74 - 113
Bromodichloromethane	55.5100	5.0	0.52	50.0000		111	74 - 115
Bromoform	55.5600	5.0	1.4	50.0000		111	70 - 118
Bromomethane	38.6800	5.0	2.5	50.0000		77.4	41 - 170
Carbon disulfide	54.6500	5.0	0.94	50.0000		109	53 - 139
Carbon tetrachloride	60.9500	5.0	0.73	50.0000		122	71 - 131
Chlorobenzene	51.5200	5.0	0.42	50.0000		103	83 - 114
Chloroethane	54.4400	5.0	1.5	50.0000		109	61 - 165
Chloroform	56.2900	5.0	0.24	50.0000		113	73 - 117
Chloromethane	47.4700	5.0	1.1	50.0000		94.9	51 - 147
cis-1,2-Dichloroethene	55.1300	5.0	0.20	50.0000		110	73 - 121
cis-1,3-Dichloropropene	56.5400	5.0	0.39	50.0000		113	81 - 136
Di-isopropyl ether	55.8800	5.0	1.9	50.0000		112	66 - 126
Dibromochloromethane	50.9700	5.0	0.81	50.0000		102	77 - 114
Dibromomethane	52.9500	5.0	0.23	50.0000		106	78 - 110
Dichlorodifluoromethane	33.1000	5.0	0.14	50.0000		66.2	22 - 172
Ethyl Acetate	590.750	50	7.0	500.000		118	48 - 147
Ethyl Ether	516.520	50	17	500.000		103	40 - 155
Ethyl tert-butyl ether	55.1200	5.0	0.85	50.0000		110	50 - 150



## Certificate of Analysis

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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0617 - MSVOA\_S (continued)**

**LCS (B0F0617-BS1) - Continued**

Prepared: 6/29/2020 Analyzed: 6/29/2020

Ethylbenzene	56.8800	5.0	0.43	50.0000		114	73 - 128			
Freon-113	52.7700	5.0	1.3	50.0000		106	60 - 144			
Hexachlorobutadiene	51.3600	5.0	0.40	50.0000		103	72 - 147			
Isopropylbenzene	59.1000	5.0	0.79	50.0000		118	79 - 134			
m,p-Xylene	116.980	10	0.98	100.000		117	79 - 128			
Methylene chloride	56.6000	5.0	2.2	50.0000		113	60 - 131			
MTBE	54.7800	5.0	0.81	50.0000		110	57 - 131			
n-Butylbenzene	59.6500	5.0	1.2	50.0000		119	82 - 134			
n-Propylbenzene	58.7700	5.0	0.78	50.0000		118	78 - 127			
Naphthalene	48.6200	5.0	1.1	50.0000		97.2	67 - 131			
o-Xylene	59.3300	5.0	0.67	50.0000		119	79 - 126			
sec-Butylbenzene	58.6000	5.0	0.63	50.0000		117	79 - 130			
Styrene	66.3000	5.0	0.45	50.0000		133	81 - 125			L5
tert-Amyl methyl ether	52.8700	5.0	1.1	50.0000		106	50 - 142			
tert-Butanol	283.820	100	11	250.000		114	0 - 168			
tert-Butylbenzene	58.7400	5.0	0.80	50.0000		117	80 - 126			
Tetrachloroethene	55.3400	5.0	0.31	50.0000		111	76 - 127			
Toluene	58.9000	5.0	0.27	50.0000		118	79 - 119			
trans-1,2-Dichloroethene	56.3500	5.0	0.56	50.0000		113	66 - 128			
trans-1,3-Dichloropropene	61.5500	5.0	0.59	50.0000		123	76 - 117			L3
Trichloroethene	55.1900	5.0	0.32	50.0000		110	81 - 120			
Trichlorofluoromethane	52.4400	5.0	1.0	50.0000		105	63 - 138			
Vinyl acetate	663.910	50	6.0	500.000		133	60 - 149			
Vinyl chloride	47.1200	5.0	0.92	50.0000		94.2	58 - 142			
<hr/>										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>58.66</i>			<i>50.0000</i>		<i>117</i>	<i>58 - 160</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>53.41</i>			<i>50.0000</i>		<i>107</i>	<i>72 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>54.36</i>			<i>50.0000</i>		<i>109</i>	<i>75 - 139</i>			
<i>Surrogate: Toluene-d8</i>	<i>55.26</i>			<i>50.0000</i>		<i>111</i>	<i>84 - 115</i>			

**LCS Dup (B0F0617-BS1)**

Prepared: 6/29/2020 Analyzed: 6/29/2020

1,1,1,2-Tetrachloroethane	54.9600	5.0	0.52	50.0000		110	80 - 114	2.99	20	
1,1,1-Trichloroethane	54.7100	5.0	0.26	50.0000		109	71 - 127	9.85	20	
1,1,2,2-Tetrachloroethane	56.1300	5.0	0.21	50.0000		112	73 - 113	6.42	20	
1,1,2-Trichloroethane	57.6400	5.0	0.40	50.0000		115	78 - 112	5.78	20	L3
1,1-Dichloroethane	51.7900	5.0	1.4	50.0000		104	73 - 123	6.16	20	
1,1-Dichloroethene	49.8000	5.0	1.9	50.0000		99.6	59 - 139	1.37	20	
1,1-Dichloropropene	52.8600	5.0	0.54	50.0000		106	78 - 131	9.51	20	
1,2,3-Trichloropropane	52.2200	5.0	0.40	50.0000		104	71 - 117	0.573	20	
1,2,3-Trichlorobenzene	55.0200	5.0	0.83	50.0000		110	68 - 134	0.145	20	
1,2,4-Trichlorobenzene	52.5300	5.0	0.80	50.0000		105	72 - 141	1.94	20	



# Certificate of Analysis

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Project Number : New Dock  
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## Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0F0617 - MSVOA_S (continued)</b>										
<b>LCS Dup (B0F0617-BSD1) - Continued</b>										
					Prepared: 6/29/2020 Analyzed: 6/29/2020					
1,2,4-Trimethylbenzene	58.6900	5.0	0.91	50.0000		117	81 - 122	2.82	20	
1,2-Dibromo-3-chloropropane	51.6500	10	1.1	50.0000		103	64 - 134	10.0	20	
1,2-Dibromoethane	54.8900	5.0	0.40	50.0000		110	78 - 113	1.03	20	
1,2-Dichlorobenzene	53.6900	5.0	0.21	50.0000		107	79 - 119	3.76	20	
1,2-Dichloroethane	53.5500	5.0	0.50	50.0000		107	62 - 126	1.34	20	
1,2-Dichloropropane	50.8900	5.0	0.46	50.0000		102	77 - 120	4.81	20	
1,3,5-Trimethylbenzene	58.8500	5.0	0.70	50.0000		118	80 - 123	1.60	20	
1,3-Dichlorobenzene	53.3400	5.0	0.36	50.0000		107	80 - 118	1.60	20	
1,3-Dichloropropane	53.7700	5.0	0.49	50.0000		108	80 - 114	2.26	20	
1,4-Dichlorobenzene	53.4400	5.0	0.27	50.0000		107	80 - 117	0.262	20	
2,2-Dichloropropane	53.0600	5.0	0.28	50.0000		106	66 - 133	13.0	20	
2-Chlorotoluene	55.1900	5.0	0.53	50.0000		110	79 - 117	0.812	20	
4-Chlorotoluene	56.5700	5.0	0.40	50.0000		113	80 - 117	1.49	20	
4-Isopropyltoluene	60.0600	5.0	0.81	50.0000		120	81 - 130	2.55	20	
Benzene	54.6300	5.0	0.36	50.0000		109	79 - 116	2.12	20	
Bromobenzene	53.2300	5.0	0.62	50.0000		106	76 - 113	2.30	20	
Bromochloromethane	53.6000	5.0	0.30	50.0000		107	74 - 113	4.11	20	
Bromodichloromethane	54.2400	5.0	0.52	50.0000		108	74 - 115	2.31	20	
Bromoform	58.8700	5.0	1.4	50.0000		118	70 - 118	5.79	20	
Bromomethane	38.2200	5.0	2.5	50.0000		76.4	41 - 170	1.20	20	
Carbon disulfide	49.7500	5.0	0.94	50.0000		99.5	53 - 139	9.39	20	
Carbon tetrachloride	56.4100	5.0	0.73	50.0000		113	71 - 131	7.74	20	
Chlorobenzene	53.2000	5.0	0.42	50.0000		106	83 - 114	3.21	20	
Chloroethane	51.6200	5.0	1.5	50.0000		103	61 - 165	5.32	20	
Chloroform	53.0900	5.0	0.24	50.0000		106	73 - 117	5.85	20	
Chloromethane	41.3900	5.0	1.1	50.0000		82.8	51 - 147	13.7	20	
cis-1,2-Dichloroethene	52.3100	5.0	0.20	50.0000		105	73 - 121	5.25	20	
cis-1,3-Dichloropropene	56.2600	5.0	0.39	50.0000		113	81 - 136	0.496	20	
Di-isopropyl ether	52.9400	5.0	1.9	50.0000		106	66 - 126	5.40	20	
Dibromochloromethane	53.3900	5.0	0.81	50.0000		107	77 - 114	4.64	20	
Dibromomethane	53.3300	5.0	0.23	50.0000		107	78 - 110	0.715	20	
Dichlorodifluoromethane	31.8900	5.0	0.14	50.0000		63.8	22 - 172	3.72	20	
Ethyl Acetate	579.740	50	7.0	500.000		116	48 - 147	1.88	20	
Ethyl Ether	497.830	50	17	500.000		99.6	40 - 155	3.69	20	
Ethyl tert-butyl ether	53.8300	5.0	0.85	50.0000		108	50 - 150	2.37	20	
Ethylbenzene	58.5900	5.0	0.43	50.0000		117	73 - 128	2.96	20	
Freon-113	46.8200	5.0	1.3	50.0000		93.6	60 - 144	11.9	20	
Hexachlorobutadiene	52.1400	5.0	0.40	50.0000		104	72 - 147	1.51	20	
Isopropylbenzene	56.7800	5.0	0.79	50.0000		114	79 - 134	4.00	20	
m,p-Xylene	121.470	10	0.98	100.000		121	79 - 128	3.77	20	





## Certificate of Analysis

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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0F0617 - MSVOA_S (continued)</b>										
<b>LCS Dup (B0F0617-BSD1) - Continued</b>					Prepared: 6/29/2020 Analyzed: 6/29/2020					
Methylene chloride	53.1600	5.0	2.2	50.0000		106	60 - 131	6.27	20	
MTBE	53.0200	5.0	0.81	50.0000		106	57 - 131	3.27	20	
n-Butylbenzene	58.5100	5.0	1.2	50.0000		117	82 - 134	1.93	20	
n-Propylbenzene	58.1900	5.0	0.78	50.0000		116	78 - 127	0.992	20	
Naphthalene	49.5200	5.0	1.1	50.0000		99.0	67 - 131	1.83	20	
o-Xylene	59.5500	5.0	0.67	50.0000		119	79 - 126	0.370	20	
sec-Butylbenzene	59.4800	5.0	0.63	50.0000		119	79 - 130	1.49	20	
Styrene	66.9700	5.0	0.45	50.0000		134	81 - 125	1.01	20	L5
tert-Amyl methyl ether	49.3400	5.0	1.1	50.0000		98.7	50 - 142	6.91	20	
tert-Butanol	274.500	100	11	250.000		110	0 - 168	3.34	20	
tert-Butylbenzene	56.2600	5.0	0.80	50.0000		113	80 - 126	4.31	20	
Tetrachloroethene	54.5800	5.0	0.31	50.0000		109	76 - 127	1.38	20	
Toluene	58.3300	5.0	0.27	50.0000		117	79 - 119	0.972	20	
trans-1,2-Dichloroethene	51.4100	5.0	0.56	50.0000		103	66 - 128	9.17	20	
trans-1,3-Dichloropropene	59.9900	5.0	0.59	50.0000		120	76 - 117	2.57	20	L3
Trichloroethene	54.4600	5.0	0.32	50.0000		109	81 - 120	1.33	20	
Trichlorofluoromethane	48.9500	5.0	1.0	50.0000		97.9	63 - 138	6.88	20	
Vinyl acetate	629.390	50	6.0	500.000		126	60 - 149	5.34	20	
Vinyl chloride	47.1800	5.0	0.92	50.0000		94.4	58 - 142	0.127	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>53.44</i>			<i>50.0000</i>		<i>107</i>	<i>58 - 160</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>53.80</i>			<i>50.0000</i>		<i>108</i>	<i>72 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.24</i>			<i>50.0000</i>		<i>100</i>	<i>75 - 139</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.32</i>			<i>50.0000</i>		<i>105</i>	<i>84 - 115</i>			



# Certificate of Analysis

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Project Number : New Dock  
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 Reported : 07/16/2020

## Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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### Batch B0G0164 - MSSEMI\_S

#### Blank (B0G0164-BLK1)

Prepared: 7/9/2020 Analyzed: 7/13/2020

2-Methylnaphthalene	ND	5.0	0.60							
Acenaphthene	ND	5.0	0.41							
Acenaphthylene	ND	5.0	0.41							
Anthracene	ND	5.0	0.56							
Benzo(a)anthracene	ND	5.0	0.56							
Benzo(a)pyrene	ND	5.0	0.69							
Benzo(b)fluoranthene	ND	5.0	2.2							
Benzo(g,h,i)perylene	ND	5.0	0.80							
Benzo(k)fluoranthene	ND	5.0	0.70							
Chrysene	ND	5.0	0.61							
Dibenz(a,h)anthracene	ND	5.0	0.88							
Fluoranthene	ND	5.0	0.45							
Fluorene	ND	5.0	0.35							
Indeno(1,2,3-cd)pyrene	ND	5.0	0.82							
Naphthalene	ND	5.0	0.56							
Phenanthrene	ND	5.0	0.34							
Pyrene	ND	5.0	0.51							

Surrogate: 1,2-Dichlorobenzene-d	19.90			33.3333		59.7	12 - 125			
Surrogate: 2-Fluorobiphenyl	23.91			33.3333		71.7	14 - 139			
Surrogate: Nitrobenzene-d5	18.99			33.3333		57.0	8 - 155			
Surrogate: 4-Terphenyl-d14	25.71			33.3333		77.1	16 - 152			

#### LCS (B0G0164-BS1)

Prepared: 7/9/2020 Analyzed: 7/13/2020

2-Methylnaphthalene	23.3990	5.0	0.60	33.3333		70.2	39 - 92			
Acenaphthene	24.9077	5.0	0.41	33.3333		74.7	35 - 94			
Acenaphthylene	26.0187	5.0	0.41	33.3333		78.1	31 - 101			
Anthracene	25.9937	5.0	0.56	33.3333		78.0	37 - 95			
Benzo(a)anthracene	23.1197	5.0	0.56	33.3333		69.4	43 - 102			
Benzo(a)pyrene	23.9520	5.0	0.69	33.3333		71.9	38 - 95			
Benzo(b)fluoranthene	23.4377	5.0	2.2	33.3333		70.3	44 - 102			
Benzo(g,h,i)perylene	26.6627	5.0	0.80	33.3333		80.0	34 - 114			
Benzo(k)fluoranthene	25.0323	5.0	0.70	33.3333		75.1	34 - 110			
Chrysene	26.2830	5.0	0.61	33.3333		78.8	46 - 101			
Dibenz(a,h)anthracene	25.8663	5.0	0.88	33.3333		77.6	35 - 117			
Fluoranthene	27.1853	5.0	0.45	33.3333		81.6	46 - 107			
Fluorene	25.5783	5.0	0.35	33.3333		76.7	35 - 98			
Indeno(1,2,3-cd)pyrene	27.3963	5.0	0.82	33.3333		82.2	35 - 114			
Naphthalene	22.8370	5.0	0.56	33.3333		68.5	39 - 86			
Phenanthrene	25.9680	5.0	0.34	33.3333		77.9	43 - 98			
Pyrene	26.7513	5.0	0.51	33.3333		80.3	44 - 108			



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/16/2020

### Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0G0164 - MSSEMI\_S (continued)**

**LCS (B0G0164-BS1) - Continued**

Prepared: 7/9/2020 Analyzed: 7/13/2020

Surrogate: 1,2-Dichlorobenzene-d	22.07		33.3333		66.2	12 - 125		
Surrogate: 2-Fluorobiphenyl	24.70		33.3333		74.1	14 - 139		
Surrogate: Nitrobenzene-d5	21.97		33.3333		65.9	8 - 155		
Surrogate: 4-Terphenyl-d14	23.63		33.3333		70.9	16 - 152		

**Matrix Spike (B0G0164-MS1)**

**Source: 2001528-11**

Prepared: 7/9/2020 Analyzed: 7/13/2020

2-Methylnaphthalene	27.9400	100	12	33.3333	ND	83.8	43 - 120		
Acenaphthene	42.0333	100	8.1	33.3333	8.17333	102	52 - 113		
Acenaphthylene	35.1600	100	8.2	33.3333	ND	105	44 - 126		
Anthracene	35.7400	100	11	33.3333	ND	107	49 - 128		
Benzo(a)anthracene	40.9600	100	11	33.3333	43.5067	-7.64	32 - 158		M2
Benzo(a)pyrene	41.9067	100	14	33.3333	52.4800	-31.7	39 - 137		M2
Benzo(b)fluoranthene	44.8333	100	43	33.3333	51.3267	-19.5	52 - 132		M2
Benzo(g,h,i)perylene	65.1467	100	16	33.3333	56.9400	24.6	35 - 162		M2
Benzo(k)fluoranthene	39.7800	100	14	33.3333	30.6067	27.5	18 - 153		
Chrysene	42.1000	100	12	33.3333	54.1467	-36.1	25 - 160		M2
Dibenz(a,h)anthracene	43.7667	100	18	33.3333	ND	131	41 - 155		
Fluoranthene	47.2667	100	9.0	33.3333	57.4000	-30.4	5 - 185		M2
Fluorene	35.1067	100	7.0	33.3333	ND	105	28 - 135		
Indeno(1,2,3-cd)pyrene	49.0667	100	16	33.3333	37.1667	35.7	36 - 162		M2
Naphthalene	38.7200	100	11	33.3333	ND	116	41 - 113		M2
Phenanthrene	47.1867	100	6.8	33.3333	26.2267	62.9	35 - 143		
Pyrene	51.8333	100	10	33.3333	59.6000	-23.3	10 - 184		M2
Surrogate: 1,2-Dichlorobenzene-d	0.000			33.3333		NR	12 - 125		S4
Surrogate: 2-Fluorobiphenyl	0.000			33.3333		NR	14 - 139		S4
Surrogate: Nitrobenzene-d5	0.000			33.3333		NR	8 - 155		S4
Surrogate: 4-Terphenyl-d14	0.000			33.3333		NR	16 - 152		S4

**Matrix Spike Dup (B0G0164-MSD1)**

**Source: 2001528-11**

Prepared: 7/9/2020 Analyzed: 7/13/2020

2-Methylnaphthalene	29.4733	100	12	33.3333	ND	88.4	43 - 120	5.34	20
Acenaphthene	41.7333	100	8.1	33.3333	8.17333	101	52 - 113	0.716	20
Acenaphthylene	36.4800	100	8.2	33.3333	ND	109	44 - 126	3.69	20
Anthracene	29.7667	100	11	33.3333	ND	89.3	49 - 128	18.2	20
Benzo(a)anthracene	44.6467	100	11	33.3333	43.5067	3.42	32 - 158	8.61	20 M2
Benzo(a)pyrene	44.0133	100	14	33.3333	52.4800	-25.4	39 - 137	4.90	20 M2
Benzo(b)fluoranthene	46.0467	100	43	33.3333	51.3267	-15.8	52 - 132	2.67	20 M2
Benzo(g,h,i)perylene	64.0667	100	16	33.3333	56.9400	21.4	35 - 162	1.67	20 M2
Benzo(k)fluoranthene	39.9400	100	14	33.3333	30.6067	28.0	18 - 153	0.401	20
Chrysene	57.1600	100	12	33.3333	54.1467	9.04	25 - 160	30.3	20 M2
Dibenz(a,h)anthracene	44.9400	100	18	33.3333	ND	135	41 - 155	2.65	20
Fluoranthene	52.6800	100	9.0	33.3333	57.4000	-14.2	5 - 185	10.8	20 M2



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock  
 Report To : Jorge Perez  
 Reported : 07/16/2020

### Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Batch B0G0164 - MSSEMI_S (continued)</b>										
<b>Matrix Spike Dup (B0G0164-MSD1) - Continued</b>			<b>Source: 2001528-11</b>			<b>Prepared: 7/9/2020 Analyzed: 7/13/2020</b>				
Fluorene	33.5400	100	7.0	33.3333	ND	101	28 - 135	4.56	20	
Indeno(1,2,3-cd)pyrene	50.4333	100	16	33.3333	37.1667	39.8	36 - 162	2.75	20	
Naphthalene	40.6867	100	11	33.3333	ND	122	41 - 113	4.95	20	M2
Phenanthrene	46.6867	100	6.8	33.3333	26.2267	61.4	35 - 143	1.07	20	
Pyrene	55.6467	100	10	33.3333	59.6000	-11.9	10 - 184	7.10	20	M2
<i>Surrogate: 1,2-Dichlorobenzene-d</i>	<i>0.000</i>			<i>33.3333</i>			<i>NR</i>	<i>12 - 125</i>		<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.000</i>			<i>33.3333</i>			<i>NR</i>	<i>14 - 139</i>		<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.000</i>			<i>33.3333</i>			<i>NR</i>	<i>8 - 155</i>		<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0.000</i>			<i>33.3333</i>			<i>NR</i>	<i>16 - 152</i>		<i>S4</i>



## Certificate of Analysis

Wood PLC

3560 Hyland Ave, Suite 100

Costa Mesa , CA 92626

Project Number : New Dock

Report To : Jorge Perez

Reported : 07/16/2020

### Notes and Definitions

S4	Surrogate was diluted out.
S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
S1	Surrogate recovery was above laboratory acceptance limit. No associated target analyte was detected in the sample.
R2	RPD value outside acceptance criteria due to possible matrix interference.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
L5	Laboratory Control Sample high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
L3	Laboratory control sample outside in-house established limits but within method criteria.
D2	Sample required dilution due to high concentration of non-target analyte.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

#### Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

38 Ice

20015228

**PROJECT NAME:** Port of Los Angeles - New Dock

DATE: 6/29/2020

PAGE 1 OF 2

**PROJECT NUMBER:** CM2016774/b

LABORATORY: Advanced Technology Laboratories

REPORTING REQUIREMENTS:

**RESULTS TO:** Kim.holland@woodpic.com  
linda.conlan@woodpic.com

LAB ADDRESS: 3275 Walnut Ave.  
Signal Hill, CA 90755

CLIENT: Wood Environment & Infrastructure Solutions

**TURNAROUND TIME:** Service Period Standard

ADDRESS: 3560 Hyland Avenue  
Costa Mesa, CA 92626

**SAMPLE SHIPMENT METHOD:**

Lab Contact: Erik Ovalle

Geotracker Required:

Yes  No

Pick up

Lab Phone #: (562) 989-4045 ext. 237

Client Contact: Kim Holland-Chominsky / Linda Conlan

Site Specific Global ID No.:

/ Logcode:

**SAMPLERS (SIGN & PRINT):**

*Jorge Perez*  
Jorge Perez

**ANALYSES**

DATE	TIME	SAMPLE ID	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	MS/MSD	No. of Containers	CONTAINER TYPE AND SIZE	VOCs 82608	TPH	Title 22 Metals	PCBs 8082	PAHs 8270Sim	ADDITIONAL COMMENTS
6/29/2020	0805	ND-7-2.5	S			4	5035 Kit 45 Sieve	X	X	X			
	0730	Q17B-062220	W			2	NOAS	X					
	0800	ND-4-5	S			4	5035 Kit 45 Sieve	X	X	X			
	0850	ND-4-12	W			5	VOCs, Pesticide Analyzer	X	X	X			
	0910	ND-DVP	W			5	↓	X	X	X			
	0930	ND-5-2.5	S			4	5035 Kit 45 Sieve	X	X	X			
	0935	ND-5-5	S			4	5035 Kit 45 Sieve	X	X	X			
	1010	ND-6-2.5	S			4	↓	X	X	X			
	1015	ND-6-5.5	S			4	↓	X	X	X			
	1045	ND-6-15	W			5	VOCs, Pesticide Analyzer	X	X	X			
	1115	ND-7-2.5	S			4	5035 Kit 45 Sieve	X	X	X			
	1125	ND-7-5.5	S			4	5035 Kit 45 Sieve	X	X	X			
	1154	ND-8-5	S			4	↓	X	X	X			

RELINQUISHED BY:

DATE

TIME

SIGNATURE:

PRINTED NAME:

DATE

TIME

SAMPLING COMMENTS:

*Jorge Perez*  
Jorge Perez  
WOOD

6/29/20

1603

*Alexandra Santos*  
Alexandra Santos  
WOOD

6/29/20

1603

*Alexandra Santos*  
Alexandra Santos  
WOOD

6/29/20

16193

*Doreen Williams*  
Doreen Williams  
WOOD

6/29/20

16193

Data Package (circle one): Level II / Level III / Level IV

3560 Hyland Avenue  
Costa Mesa, CA 92626  
Tel 949.842.0245 Fax 949.642.4474

**wood.**

202015228

**PROJECT NAME:** Port of Los Angeles -- New Dock

**PROJECT NUMBER:** CM2016774D

**LABORATORY:** Advanced Technology Laboratories

**CLIENT:** Wood Environment & Infrastructure Solutions

**REPORTING REQUIREMENTS:**

**RESULTS TO:** kim.holland@woodpic.com  
linda.conlan@woodpic.com

**ADDRESS:** 3275 Walnut Ave. Signal Hill, CA 90755

**TURNAROUND TIME:** Standard

**LAB CONTACT:** Erik Ovalle

**CLIENT CONTACT:** Kim Holland-Chorninsky / Linda Conlan

**GEOTRACKER REQUIRED:** Yes

**LAB PHONE #:** (562) 989-4045 ext. 237

**M:** (949) 574-7504 / (949) 574-7083

**LOGCODE:** /

**SAMPLE SHIPMENT METHOD:** Pick up

**SAMPLERS (SIGN & PRINT):**

**ANALYSES:**

**ADDITIONAL COMMENTS:**

DATE	TIME	SAMPLE ID	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	MS/MSD	No. of Containers	CONTAINER TYPE AND SIZE	ANALYSES	ADDITIONAL COMMENTS
6/29/2020	12:00	ND-8-6	S			4	535 Vt SS STEWIE	VOCs 8260B TPH 8015 (4-40) Title 22 Metals	
	12:35	ND-9-2.5	S						
	12:45	ND-9-5.5	S						
	13:15	ND-10-2							
	13:25	ND-10-5.5							
	14:00	ND-1-2.5							
	14:05	ND-1-5.5							
	14:35	ND-2-2.5							
	14:40	ND-2-5.5							

**RELINQUISHED BY:** [Signature]

**DATE:** 6/15/20

**TIME:** 16:03

**SIGNATURE:** [Signature]

**PRINTED NAME:** Jorge Perez

**COMPANY:** WOOD

**RECEIVED BY:** [Signature]

**DATE:** 6/25/20

**TIME:** 16:03

**SIGNATURE:** [Signature]

**PRINTED NAME:** [Name]

**COMPANY:** [Company]

Data Package (circle one):  
Level II / Level III / Level IV

3560 Hyland Avenue  
Costa Mesa, CA 92626  
Tel 949 642-0245 Fax 949-642-4474

**WOOD.**

July 31, 2020

Jorge Perez  
Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626  
Tel: (949) 574-7519  
Fax: (949) 642-4474

ELAP No.: 1838  
CSDLAC No.: 10196  
ORELAP No.: CA300003

Re: ATL Work Order Number : 2001528  
Client Reference : New Dock

Enclosed are the results for sample(s) received on June 25, 2020 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Dr. Reza Karimi  
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/31/2020

### SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ND-10-2	2001528-17	Soil	6/25/20 13:15	6/25/20 16:03



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/31/2020

**Client Sample ID: ND-10-2**

**Lab ID: 2001528-17**

**STLC Metals by ICP-AES by EPA 6010B**

**Analyst: VL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	6.2	1.0	20	B0G0478	07/29/2020	07/29/20 16:12	



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock  
 Report To : Jorge Perez  
 Reported : 07/31/2020

### QUALITY CONTROL SECTION

#### STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	------------------	---------------	---------------	----------------	------------------	-------	-----------------	-----	--------------	-------

**Batch B0G0478 - STLC\_S Extraction**

**Blank (B0G0478-BLK1)**

Prepared: 7/29/2020 Analyzed: 7/29/2020

Lead ND 1.0 0.094

**LCS (B0G0478-BS1)**

Prepared: 7/29/2020 Analyzed: 7/29/2020

Lead 0.496394 0.500000 99.3 80 - 120

**Duplicate (B0G0478-DUP1)**

**Source: 2001780-01**

Prepared: 7/29/2020 Analyzed: 7/29/2020

Lead 4.46021 1.0 0.094 4.42432 0.808 20

**Matrix Spike (B0G0478-MS1)**

**Source: 2001780-01**

Prepared: 7/29/2020 Analyzed: 7/29/2020

Lead 4.83794 0.500000 4.42432 82.7 70 - 130

**Matrix Spike Dup (B0G0478-MSD1)**

**Source: 2001780-01**

Prepared: 7/29/2020 Analyzed: 7/29/2020

Lead 4.85917 0.500000 4.42432 87.0 70 - 130 0.438 20



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock  
Report To : Jorge Perez  
Reported : 07/31/2020

### Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.





Tina Nguyen

---

From: Rahul Nair  
Sent: Friday, July 24, 2020 12:06 PM  
To: Tina Nguyen  
Subject: FW: Port of LA

FYI

---

**From:** Perez, Jorge <jorge.perez@woodplc.com>  
**Sent:** Friday, July 24, 2020 12:05 PM  
**To:** Rahul Nair <Rahul.Nair@atglobal.com>  
**Cc:** Holland, Kim <kim.holland@woodplc.com>; Conlan, Linda <linda.conlan@woodplc.com>  
**Subject:** Port of LA

Rahul,  
Can you please analyze the following on a standard TAT:

**Barracuda**

- BAR-9-1.5 run STLC and TCLP for lead
- BAR-16-1.5 run STLC and TCLP for lead
- BAR-18-1.5 run STLC for lead

**New Dock**

- ND-10-2 STLC for lead

**Jorge Perez, PG 9682**

Technical Professional 3-Geologist  
3560 Hyland Avenue #100  
Costa Mesa, CA 92626  
Direct: 1-949-574-7519  
Mobile: 1-949-241-7658  
[www.woodplc.com](http://www.woodplc.com)

---

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July 15, 2020

Jorge Perez  
Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626  
Tel: (949) 574-7519  
Fax: (949) 642-4474

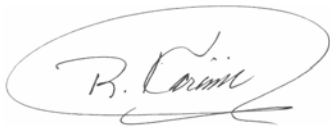
ELAP No.: 1838  
CSDLAC No.: 10196  
ORELAP No.: CA300003

Re: ATL Work Order Number : 2001541  
Client Reference : New Dock, CM20167740

Enclosed are the results for sample(s) received on June 26, 2020 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Dr. Reza Karimi  
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

### SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
QCTB-062620	2001541-01	Water	6/26/20 7:00	6/26/20 15:10
ND-14-2.5	2001541-02	Soil	6/26/20 7:50	6/26/20 15:10
ND-14-5.5	2001541-03	Soil	6/26/20 7:55	6/26/20 15:10
ND-13-3.5	2001541-04	Soil	6/26/20 8:55	6/26/20 15:10
ND-13-6.5	2001541-05	Soil	6/26/20 9:05	6/26/20 15:10
ND-16-2	2001541-06	Soil	6/26/20 9:45	6/26/20 15:10
ND-16-5	2001541-07	Soil	6/26/20 9:50	6/26/20 15:10
ND-16-16	2001541-08	Water	6/26/20 10:20	6/26/20 15:10
ND-15-2	2001541-09	Soil	6/26/20 11:20	6/26/20 15:10
ND-15-6.5	2001541-10	Soil	6/26/20 11:45	6/26/20 15:10
ND-15-16	2001541-11	Water	6/26/20 12:10	6/26/20 15:10
ND-11-2.5	2001541-12	Soil	6/26/20 12:40	6/26/20 15:10
ND-11-5.5	2001541-13	Soil	6/26/20 12:50	6/26/20 15:10
ND-12-3	2001541-14	Soil	6/26/20 13:15	6/26/20 15:10
ND-12-6	2001541-15	Soil	6/26/20 13:20	6/26/20 15:10
ND-3-2.5	2001541-16	Soil	6/26/20 13:55	6/26/20 15:10
ND-3-5.5	2001541-17	Soil	6/26/20 14:00	6/26/20 15:10
ND-3-16	2001541-18	Water	6/26/20 14:30	6/26/20 15:10
QCEB-ND	2001541-19	Water	6/26/20 14:45	6/26/20 15:10



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: QCTB-062620**

**Lab ID: 2001541-01**

### Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,1,1-Trichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,1,2-Trichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,1-Dichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,1-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,1-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,2,3-Trichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,2,3-Trichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,2,4-Trichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,2,4-Trimethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,2-Dibromoethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,2-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,2-Dichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,2-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,3,5-Trimethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,3-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,3-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
1,4-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
2,2-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
2-Chlorotoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
4-Chlorotoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
4-Isopropyltoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Benzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Bromobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Bromochloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Bromodichloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Bromoform	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Bromomethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Carbon disulfide	ND	1.0	1	B0F0638	06/30/2020	06/30/20 15:34	
Carbon tetrachloride	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Chlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Chloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Chloroform	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Chloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: QCTB-062620**

**Lab ID: 2001541-01**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
cis-1,3-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Di-isopropyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Dibromochloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Dibromomethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Dichlorodifluoromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Ethyl Acetate	ND	10	1	B0F0638	06/30/2020	06/30/20 15:34	
Ethyl Ether	ND	10	1	B0F0638	06/30/2020	06/30/20 15:34	
Ethyl tert-butyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Ethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Freon-113	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Hexachlorobutadiene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Isopropylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
m,p-Xylene	ND	1.0	1	B0F0638	06/30/2020	06/30/20 15:34	
Methylene chloride	ND	1.0	1	B0F0638	06/30/2020	06/30/20 15:34	
MTBE	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
n-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
n-Propylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Naphthalene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
o-Xylene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
sec-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Styrene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
tert-Amyl methyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
tert-Butanol	ND	10	1	B0F0638	06/30/2020	06/30/20 15:34	
tert-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Tetrachloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Toluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
trans-1,2-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
trans-1,3-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Trichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Trichlorofluoromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
Vinyl acetate	ND	10	1	B0F0638	06/30/2020	06/30/20 15:34	
Vinyl chloride	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:34	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>109 %</i>	<i>59 - 158</i>		B0F0638	06/30/2020	<i>06/30/20 15:34</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.6 %</i>	<i>71 - 127</i>		B0F0638	06/30/2020	<i>06/30/20 15:34</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>105 %</i>	<i>66 - 147</i>		B0F0638	06/30/2020	<i>06/30/20 15:34</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: QCTB-062620**

**Lab ID: 2001541-01**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>99.6 %</i>	<i>77 - 138</i>		B0F0638	06/30/2020	<i>06/30/20 15:34</i>	



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**Client Sample ID: ND-14-2.5**

**Lab ID: 2001541-02**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Arsenic	3.1	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Barium	61	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Chromium	14	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Cobalt	4.1	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Copper	11	2.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Lead	12	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Molybdenum	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Nickel	9.6	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Vanadium	28	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	
Zinc	41	1.0	1	B0G0020	07/01/2020	07/02/20 12:21	

### Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:01	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0091	07/07/2020	07/07/20 02:30	
Surrogate: 4-Bromofluorobenzene	92.2 %	45 - 149		B0G0091	07/07/2020	07/07/20 02:30	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
<b>C13-C40 Total</b>	<b>430</b>	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	



# Certificate of Analysis

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**Client Sample ID: ND-14-2.5**

**Lab ID: 2001541-02**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
C17-C18	ND	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
C19-C20	ND	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
C21-C22	ND	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
<b>C23-C24</b>	<b>6.1</b>	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
<b>C25-C26</b>	<b>8.6</b>	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
<b>C27-C28</b>	<b>15</b>	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
<b>C29-C32</b>	<b>69</b>	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
<b>C33-C36</b>	<b>120</b>	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
<b>C37-C40</b>	<b>200</b>	5.0	5	B0F0660	06/30/2020	07/02/20 01:06	
<i>Surrogate: p-Terphenyl</i>	<i>93.9 %</i>	<i>15 - 110</i>		B0F0660	06/30/2020	07/02/20 01:06	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,1,1-Trichloroethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,1,2,2-Tetrachloroethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,1,2-Trichloroethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,1-Dichloroethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,1-Dichloroethene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,1-Dichloropropene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,2,3-Trichloropropane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,2,3-Trichlorobenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,2,4-Trichlorobenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,2,4-Trimethylbenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,2-Dibromo-3-chloropropane	ND	8.7	1	B0F0618	06/30/2020	06/30/20 04:45	
1,2-Dibromoethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,2-Dichlorobenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,2-Dichloroethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,2-Dichloropropane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,3,5-Trimethylbenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,3-Dichlorobenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,3-Dichloropropane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
1,4-Dichlorobenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-14-2.5**

**Lab ID: 2001541-02**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
2-Chlorotoluene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
4-Chlorotoluene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
4-Isopropyltoluene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Benzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Bromobenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Bromochloromethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Bromodichloromethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Bromoform	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Bromomethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Carbon disulfide	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Carbon tetrachloride	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Chlorobenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Chloroethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Chloroform	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Chloromethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
cis-1,2-Dichloroethene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
cis-1,3-Dichloropropene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Di-isopropyl ether	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Dibromochloromethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Dibromomethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Dichlorodifluoromethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Ethyl Acetate	ND	44	1	B0F0618	06/30/2020	06/30/20 04:45	
Ethyl Ether	ND	44	1	B0F0618	06/30/2020	06/30/20 04:45	
Ethyl tert-butyl ether	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Ethylbenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Freon-113	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Hexachlorobutadiene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Isopropylbenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
m,p-Xylene	ND	8.7	1	B0F0618	06/30/2020	06/30/20 04:45	
Methylene chloride	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
MTBE	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
n-Butylbenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
n-Propylbenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Naphthalene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
o-Xylene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-14-2.5**

**Lab ID: 2001541-02**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Styrene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
tert-Amyl methyl ether	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
tert-Butanol	ND	87	1	B0F0618	06/30/2020	06/30/20 04:45	
tert-Butylbenzene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Tetrachloroethene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Toluene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
trans-1,2-Dichloroethene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
trans-1,3-Dichloropropene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Trichloroethene	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Trichlorofluoromethane	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
Vinyl acetate	ND	44	1	B0F0618	06/30/2020	06/30/20 04:45	
Vinyl chloride	ND	4.4	1	B0F0618	06/30/2020	06/30/20 04:45	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>134 %</i>	<i>58 - 160</i>		B0F0618	06/30/2020	<i>06/30/20 04:45</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>	<i>72 - 121</i>		B0F0618	06/30/2020	<i>06/30/20 04:45</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>114 %</i>	<i>75 - 139</i>		B0F0618	06/30/2020	<i>06/30/20 04:45</i>	
<i>Surrogate: Toluene-d8</i>	<i>109 %</i>	<i>84 - 115</i>		B0F0618	06/30/2020	<i>06/30/20 04:45</i>	





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Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-14-5.5**  
**Lab ID: 2001541-03**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:25	
<b>Arsenic</b>	<b>3.3</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
<b>Barium</b>	<b>78</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
<b>Chromium</b>	<b>14</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
<b>Cobalt</b>	<b>3.9</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
<b>Copper</b>	<b>11</b>	2.0	1	B0G0020	07/01/2020	07/02/20 12:25	
<b>Lead</b>	<b>11</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
Molybdenum	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
<b>Nickel</b>	<b>9.6</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
<b>Vanadium</b>	<b>28</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	
<b>Zinc</b>	<b>43</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:25	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:14	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0091	07/07/2020	07/07/20 02:53	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>84.6 %</i>	<i>45 - 149</i>		B0G0091	07/07/2020	07/07/20 02:53	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	10	10	B0F0660	06/30/2020	07/02/20 01:23	
<b>C13-C40 Total</b>	<b>1100</b>	10	10	B0F0660	06/30/2020	07/02/20 01:23	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-14-5.5**  
**Lab ID: 2001541-03**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	10	10	B0F0660	06/30/2020	07/02/20 01:23	
C17-C18	ND	10	10	B0F0660	06/30/2020	07/02/20 01:23	
C19-C20	ND	10	10	B0F0660	06/30/2020	07/02/20 01:23	
<b>C21-C22</b>	<b>11</b>	10	10	B0F0660	06/30/2020	07/02/20 01:23	
<b>C23-C24</b>	<b>19</b>	10	10	B0F0660	06/30/2020	07/02/20 01:23	
<b>C25-C26</b>	<b>35</b>	10	10	B0F0660	06/30/2020	07/02/20 01:23	
<b>C27-C28</b>	<b>54</b>	10	10	B0F0660	06/30/2020	07/02/20 01:23	
<b>C29-C32</b>	<b>220</b>	10	10	B0F0660	06/30/2020	07/02/20 01:23	
<b>C33-C36</b>	<b>320</b>	10	10	B0F0660	06/30/2020	07/02/20 01:23	
<b>C37-C40</b>	<b>440</b>	10	10	B0F0660	06/30/2020	07/02/20 01:23	
<i>Surrogate: p-Terphenyl</i>	<i>84.1 %</i>	<i>15 - 110</i>		B0F0660	06/30/2020	07/02/20 01:23	

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,1,1-Trichloroethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,1,2,2-Tetrachloroethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,1,2-Trichloroethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,1-Dichloroethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,1-Dichloroethene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,1-Dichloropropene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,2,3-Trichloropropane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,2,3-Trichlorobenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,2,4-Trichlorobenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,2,4-Trimethylbenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,2-Dibromo-3-chloropropane	ND	13	1	B0F0618	06/30/2020	06/30/20 05:06	
1,2-Dibromoethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,2-Dichlorobenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,2-Dichloroethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,2-Dichloropropane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,3,5-Trimethylbenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,3-Dichlorobenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,3-Dichloropropane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
1,4-Dichlorobenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-14-5.5**

**Lab ID: 2001541-03**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
2-Chlorotoluene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
4-Chlorotoluene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
4-Isopropyltoluene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Benzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Bromobenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Bromochloromethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Bromodichloromethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Bromoform	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Bromomethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Carbon disulfide	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Carbon tetrachloride	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Chlorobenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Chloroethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Chloroform	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Chloromethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
cis-1,2-Dichloroethene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
cis-1,3-Dichloropropene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Di-isopropyl ether	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Dibromochloromethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Dibromomethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Dichlorodifluoromethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Ethyl Acetate	ND	63	1	B0F0618	06/30/2020	06/30/20 05:06	
Ethyl Ether	ND	63	1	B0F0618	06/30/2020	06/30/20 05:06	
Ethyl tert-butyl ether	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Ethylbenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Freon-113	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Hexachlorobutadiene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Isopropylbenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
m,p-Xylene	ND	13	1	B0F0618	06/30/2020	06/30/20 05:06	
Methylene chloride	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
MTBE	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
n-Butylbenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
n-Propylbenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Naphthalene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
o-Xylene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

**Client Sample ID: ND-14-5.5**  
**Lab ID: 2001541-03**

**Volatile Organic Compounds by EPA 5035 / EPA 8260B**

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Styrene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
tert-Amyl methyl ether	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
tert-Butanol	ND	130	1	B0F0618	06/30/2020	06/30/20 05:06	
tert-Butylbenzene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Tetrachloroethene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Toluene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
trans-1,2-Dichloroethene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
trans-1,3-Dichloropropene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Trichloroethene	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Trichlorofluoromethane	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
Vinyl acetate	ND	63	1	B0F0618	06/30/2020	06/30/20 05:06	
Vinyl chloride	ND	6.3	1	B0F0618	06/30/2020	06/30/20 05:06	
<hr/>							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>147 %</i>	<i>58 - 160</i>		B0F0618	06/30/2020	<i>06/30/20 05:06</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>	<i>72 - 121</i>		B0F0618	06/30/2020	<i>06/30/20 05:06</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>129 %</i>	<i>75 - 139</i>		B0F0618	06/30/2020	<i>06/30/20 05:06</i>	
<i>Surrogate: Toluene-d8</i>	<i>111 %</i>	<i>84 - 115</i>		B0F0618	06/30/2020	<i>06/30/20 05:06</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-13-3.5**

**Lab ID: 2001541-04**

**Title 22 Metals by ICP-AES EPA 6010B**

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Arsenic	1.7	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Barium	140	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Chromium	16	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Cobalt	5.0	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Copper	23	2.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Lead	22	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Molybdenum	1.3	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Nickel	13	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Vanadium	31	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	
Zinc	55	1.0	1	B0G0020	07/01/2020	07/02/20 12:26	

**Mercury by AA (Cold Vapor) EPA 7471A**

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.11	0.10	1	B0G0023	07/01/2020	07/02/20 14:16	

**Gasoline Range Organics by EPA 8015B (Modified)**

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0091	07/07/2020	07/07/20 03:16	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>84.5 %</i>	<i>45 - 149</i>		B0G0091	07/07/2020	07/07/20 03:16	

**Hydrocarbon Chain Distribution by EPA 8015B (Modified)**

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	50	50	B0F0660	06/30/2020	07/02/20 05:46	
<b>C13-C40 Total</b>	<b>3200</b>	50	50	B0F0660	06/30/2020	07/02/20 05:46	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-13-3.5**

**Lab ID: 2001541-04**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	50	50	B0F0660	06/30/2020	07/02/20 05:46	
C17-C18	ND	50	50	B0F0660	06/30/2020	07/02/20 05:46	
C19-C20	ND	50	50	B0F0660	06/30/2020	07/02/20 05:46	
C21-C22	ND	50	50	B0F0660	06/30/2020	07/02/20 05:46	
<b>C23-C24</b>	<b>55</b>	50	50	B0F0660	06/30/2020	07/02/20 05:46	
<b>C25-C26</b>	<b>100</b>	50	50	B0F0660	06/30/2020	07/02/20 05:46	
<b>C27-C28</b>	<b>140</b>	50	50	B0F0660	06/30/2020	07/02/20 05:46	
<b>C29-C32</b>	<b>570</b>	50	50	B0F0660	06/30/2020	07/02/20 05:46	
<b>C33-C36</b>	<b>950</b>	50	50	B0F0660	06/30/2020	07/02/20 05:46	
<b>C37-C40</b>	<b>1400</b>	50	50	B0F0660	06/30/2020	07/02/20 05:46	
<i>Surrogate: p-Terphenyl</i>	<i>90.6 %</i>	<i>15 - 110</i>		B0F0660	06/30/2020	07/02/20 05:46	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,1,1-Trichloroethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,1,2,2-Tetrachloroethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,1,2-Trichloroethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,1-Dichloroethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,1-Dichloroethene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,1-Dichloropropene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,2,3-Trichloropropane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,2,3-Trichlorobenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,2,4-Trichlorobenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,2,4-Trimethylbenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,2-Dibromo-3-chloropropane	ND	8.5	1	B0F0618	06/30/2020	06/30/20 05:28	
1,2-Dibromoethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,2-Dichlorobenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,2-Dichloroethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,2-Dichloropropane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,3,5-Trimethylbenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,3-Dichlorobenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,3-Dichloropropane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
1,4-Dichlorobenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-13-3.5**

**Lab ID: 2001541-04**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
2-Chlorotoluene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
4-Chlorotoluene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
4-Isopropyltoluene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Benzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Bromobenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Bromochloromethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Bromodichloromethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Bromoform	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Bromomethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Carbon disulfide	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Carbon tetrachloride	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Chlorobenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Chloroethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Chloroform	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Chloromethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
cis-1,2-Dichloroethene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
cis-1,3-Dichloropropene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Di-isopropyl ether	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Dibromochloromethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Dibromomethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Dichlorodifluoromethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Ethyl Acetate	ND	42	1	B0F0618	06/30/2020	06/30/20 05:28	
Ethyl Ether	ND	42	1	B0F0618	06/30/2020	06/30/20 05:28	
Ethyl tert-butyl ether	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Ethylbenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Freon-113	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Hexachlorobutadiene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Isopropylbenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
m,p-Xylene	ND	8.5	1	B0F0618	06/30/2020	06/30/20 05:28	
Methylene chloride	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
MTBE	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
n-Butylbenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
n-Propylbenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Naphthalene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
o-Xylene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-13-3.5**

**Lab ID: 2001541-04**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Styrene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
tert-Amyl methyl ether	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
tert-Butanol	ND	85	1	B0F0618	06/30/2020	06/30/20 05:28	
tert-Butylbenzene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Tetrachloroethene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Toluene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
trans-1,2-Dichloroethene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
trans-1,3-Dichloropropene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Trichloroethene	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Trichlorofluoromethane	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
Vinyl acetate	ND	42	1	B0F0618	06/30/2020	06/30/20 05:28	
Vinyl chloride	ND	4.2	1	B0F0618	06/30/2020	06/30/20 05:28	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>143 %</i>	<i>58 - 160</i>		B0F0618	06/30/2020	<i>06/30/20 05:28</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>	<i>72 - 121</i>		B0F0618	06/30/2020	<i>06/30/20 05:28</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>130 %</i>	<i>75 - 139</i>		B0F0618	06/30/2020	<i>06/30/20 05:28</i>	
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>	<i>84 - 115</i>		B0F0618	06/30/2020	<i>06/30/20 05:28</i>	

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Acenaphthene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Acenaphthylene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Anthracene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Benzo(a)anthracene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Benzo(a)pyrene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Benzo(b)fluoranthene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Benzo(g,h,i)perylene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Benzo(k)fluoranthene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Chrysene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Dibenz(a,h)anthracene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Fluoranthene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Fluorene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Indeno(1,2,3-cd)pyrene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-13-3.5**

**Lab ID: 2001541-04**

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Naphthalene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Phenanthrene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
Pyrene	ND	50	10	B0G0164	07/09/2020	07/13/20 15:46	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>120 %</i>	<i>12 - 125</i>		B0G0164	07/09/2020	<i>07/13/20 15:46</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>111 %</i>	<i>14 - 139</i>		B0G0164	07/09/2020	<i>07/13/20 15:46</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>47.6 %</i>	<i>8 - 155</i>		B0G0164	07/09/2020	<i>07/13/20 15:46</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>105 %</i>	<i>16 - 152</i>		B0G0164	07/09/2020	<i>07/13/20 15:46</i>	



# Certificate of Analysis

Wood PLC  
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Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-13-6.5**

**Lab ID: 2001541-05**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Arsenic	4.1	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Barium	100	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Chromium	17	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Cobalt	4.6	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Copper	22	2.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Lead	15	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Molybdenum	1.6	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Nickel	14	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Vanadium	29	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	
Zinc	64	1.0	1	B0G0020	07/01/2020	07/02/20 12:28	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:26	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0091	07/07/2020	07/07/20 03:39	
Surrogate: 4-Bromofluorobenzene	83.3 %	45 - 149		B0G0091	07/07/2020	07/07/20 03:39	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
C13-C40 Total	770	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-13-6.5**  
**Lab ID: 2001541-05**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	5.8	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
C17-C18	10	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
C19-C20	12	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
C21-C22	13	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
C23-C24	16	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
C25-C26	28	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
C27-C28	44	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
C29-C32	160	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
C33-C36	210	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
C37-C40	270	5.0	5	B0F0660	06/30/2020	07/02/20 00:48	
Surrogate: <i>p</i> -Terphenyl	91.8 %	15 - 110		B0F0660	06/30/2020	07/02/20 00:48	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,1,1-Trichloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,1,2,2-Tetrachloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,1,2-Trichloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,1-Dichloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,1-Dichloroethene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,1-Dichloropropene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,2,3-Trichloropropane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,2,3-Trichlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,2,4-Trichlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,2,4-Trimethylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,2-Dibromo-3-chloropropane	ND	8.9	1	B0F0618	06/30/2020	06/30/20 05:50	
1,2-Dibromoethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,2-Dichlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,2-Dichloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,2-Dichloropropane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,3,5-Trimethylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,3-Dichlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,3-Dichloropropane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
1,4-Dichlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-13-6.5**

**Lab ID: 2001541-05**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
2-Chlorotoluene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
4-Chlorotoluene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
4-Isopropyltoluene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Benzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Bromobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Bromochloromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Bromodichloromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Bromoform	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Bromomethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Carbon disulfide	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Carbon tetrachloride	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Chlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Chloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Chloroform	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Chloromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
cis-1,2-Dichloroethene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
cis-1,3-Dichloropropene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Di-isopropyl ether	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Dibromochloromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Dibromomethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Dichlorodifluoromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Ethyl Acetate	ND	45	1	B0F0618	06/30/2020	06/30/20 05:50	
Ethyl Ether	ND	45	1	B0F0618	06/30/2020	06/30/20 05:50	
Ethyl tert-butyl ether	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Ethylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Freon-113	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Hexachlorobutadiene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Isopropylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
m,p-Xylene	ND	8.9	1	B0F0618	06/30/2020	06/30/20 05:50	
Methylene chloride	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
MTBE	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
n-Butylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
n-Propylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Naphthalene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
o-Xylene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-13-6.5**

**Lab ID: 2001541-05**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Styrene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
tert-Amyl methyl ether	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
tert-Butanol	ND	89	1	B0F0618	06/30/2020	06/30/20 05:50	
tert-Butylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Tetrachloroethene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Toluene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
trans-1,2-Dichloroethene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
trans-1,3-Dichloropropene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Trichloroethene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Trichlorofluoromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
Vinyl acetate	ND	45	1	B0F0618	06/30/2020	06/30/20 05:50	
Vinyl chloride	ND	4.5	1	B0F0618	06/30/2020	06/30/20 05:50	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>143 %</i>	<i>58 - 160</i>		B0F0618	06/30/2020	<i>06/30/20 05:50</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>104 %</i>	<i>72 - 121</i>		B0F0618	06/30/2020	<i>06/30/20 05:50</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>128 %</i>	<i>75 - 139</i>		B0F0618	06/30/2020	<i>06/30/20 05:50</i>	
<i>Surrogate: Toluene-d8</i>	<i>112 %</i>	<i>84 - 115</i>		B0F0618	06/30/2020	<i>06/30/20 05:50</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-16-2**  
**Lab ID: 2001541-06**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:29	
<b>Arsenic</b>	<b>2.9</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
<b>Barium</b>	<b>82</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
<b>Chromium</b>	<b>18</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
<b>Cobalt</b>	<b>6.2</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
<b>Copper</b>	<b>17</b>	2.0	1	B0G0020	07/01/2020	07/02/20 12:29	
<b>Lead</b>	<b>9.7</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
Molybdenum	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
<b>Nickel</b>	<b>13</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
<b>Vanadium</b>	<b>31</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	
<b>Zinc</b>	<b>46</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:29	

### Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:28	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0091	07/07/2020	07/07/20 04:02	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>82.4 %</i>	<i>45 - 149</i>		B0G0091	07/07/2020	07/07/20 04:02	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
<b>C13-C40 Total</b>	<b>250</b>	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-16-2**  
**Lab ID: 2001541-06**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
C17-C18	ND	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
<b>C19-C20</b>	<b>2.4</b>	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
<b>C21-C22</b>	<b>4.2</b>	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
<b>C23-C24</b>	<b>5.8</b>	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
<b>C25-C26</b>	<b>8.5</b>	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
<b>C27-C28</b>	<b>14</b>	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
<b>C29-C32</b>	<b>45</b>	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
<b>C33-C36</b>	<b>72</b>	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
<b>C37-C40</b>	<b>99</b>	2.0	2	B0F0660	06/30/2020	07/01/20 23:38	
<i>Surrogate: p-Terphenyl</i>	<i>105 %</i>	<i>15 - 110</i>		B0F0660	06/30/2020	07/01/20 23:38	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,1,1-Trichloroethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,1,2,2-Tetrachloroethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,1,2-Trichloroethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,1-Dichloroethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,1-Dichloroethene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,1-Dichloropropene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,2,3-Trichloropropane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,2,3-Trichlorobenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,2,4-Trichlorobenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,2,4-Trimethylbenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,2-Dibromo-3-chloropropane	ND	7.8	1	B0F0618	06/30/2020	06/30/20 06:11	
1,2-Dibromoethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,2-Dichlorobenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,2-Dichloroethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,2-Dichloropropane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,3,5-Trimethylbenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,3-Dichlorobenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,3-Dichloropropane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
1,4-Dichlorobenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-16-2**

**Lab ID: 2001541-06**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
2-Chlorotoluene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
4-Chlorotoluene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
4-Isopropyltoluene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Benzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Bromobenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Bromochloromethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Bromodichloromethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Bromoform	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Bromomethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Carbon disulfide	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Carbon tetrachloride	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Chlorobenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Chloroethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Chloroform	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Chloromethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
cis-1,2-Dichloroethene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
cis-1,3-Dichloropropene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Di-isopropyl ether	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Dibromochloromethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Dibromomethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Dichlorodifluoromethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Ethyl Acetate	ND	39	1	B0F0618	06/30/2020	06/30/20 06:11	
Ethyl Ether	ND	39	1	B0F0618	06/30/2020	06/30/20 06:11	
Ethyl tert-butyl ether	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Ethylbenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Freon-113	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Hexachlorobutadiene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Isopropylbenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
m,p-Xylene	ND	7.8	1	B0F0618	06/30/2020	06/30/20 06:11	
Methylene chloride	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
MTBE	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
n-Butylbenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
n-Propylbenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Naphthalene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
o-Xylene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	





# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-16-2**

**Lab ID: 2001541-06**

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Styrene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
tert-Amyl methyl ether	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
tert-Butanol	ND	78	1	B0F0618	06/30/2020	06/30/20 06:11	
tert-Butylbenzene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Tetrachloroethene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Toluene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
trans-1,2-Dichloroethene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
trans-1,3-Dichloropropene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Trichloroethene	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Trichlorofluoromethane	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
Vinyl acetate	ND	39	1	B0F0618	06/30/2020	06/30/20 06:11	
Vinyl chloride	ND	3.9	1	B0F0618	06/30/2020	06/30/20 06:11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>127 %</i>	<i>58 - 160</i>		B0F0618	06/30/2020	<i>06/30/20 06:11</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>	<i>72 - 121</i>		B0F0618	06/30/2020	<i>06/30/20 06:11</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>113 %</i>	<i>75 - 139</i>		B0F0618	06/30/2020	<i>06/30/20 06:11</i>	
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	<i>84 - 115</i>		B0F0618	06/30/2020	<i>06/30/20 06:11</i>	

## Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Acenaphthene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Acenaphthylene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Anthracene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Benzo(a)anthracene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Benzo(a)pyrene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Benzo(b)fluoranthene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Benzo(g,h,i)perylene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Benzo(k)fluoranthene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Chrysene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Dibenz(a,h)anthracene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Fluoranthene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Fluorene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Indeno(1,2,3-cd)pyrene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-16-2**

**Lab ID: 2001541-06**

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Naphthalene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Phenanthrene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
Pyrene	ND	25	5	B0G0164	07/09/2020	07/13/20 16:13	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>99.1 %</i>	<i>12 - 125</i>		B0G0164	07/09/2020	<i>07/13/20 16:13</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>124 %</i>	<i>14 - 139</i>		B0G0164	07/09/2020	<i>07/13/20 16:13</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>56.5 %</i>	<i>8 - 155</i>		B0G0164	07/09/2020	<i>07/13/20 16:13</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>107 %</i>	<i>16 - 152</i>		B0G0164	07/09/2020	<i>07/13/20 16:13</i>	



# Certificate of Analysis

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Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-16-5**

**Lab ID: 2001541-07**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:30	
Arsenic	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
<b>Barium</b>	<b>92</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
<b>Chromium</b>	<b>14</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
<b>Cobalt</b>	<b>4.2</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
<b>Copper</b>	<b>14</b>	2.0	1	B0G0020	07/01/2020	07/02/20 12:30	
<b>Lead</b>	<b>32</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
Molybdenum	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
<b>Nickel</b>	<b>9.9</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
<b>Vanadium</b>	<b>25</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	
<b>Zinc</b>	<b>50</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:30	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:31	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0091	07/07/2020	07/07/20 04:25	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77.4 %</i>	<i>45 - 149</i>		B0G0091	07/07/2020	07/07/20 04:25	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
<b>C13-C40 Total</b>	<b>110</b>	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-16-5**

**Lab ID: 2001541-07**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
C17-C18	ND	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
<b>C19-C20</b>	<b>1.5</b>	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
<b>C21-C22</b>	<b>2.7</b>	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
<b>C23-C24</b>	<b>3.7</b>	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
<b>C25-C26</b>	<b>5.3</b>	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
<b>C27-C28</b>	<b>6.5</b>	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
<b>C29-C32</b>	<b>23</b>	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
<b>C33-C36</b>	<b>30</b>	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
<b>C37-C40</b>	<b>37</b>	1.0	1	B0F0660	06/30/2020	07/01/20 23:03	
<i>Surrogate: p-Terphenyl</i>	<i>72.6 %</i>	<i>15 - 110</i>		B0F0660	06/30/2020	07/01/20 23:03	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,1,1-Trichloroethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,1,2,2-Tetrachloroethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,1,2-Trichloroethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,1-Dichloroethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,1-Dichloroethene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,1-Dichloropropene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,2,3-Trichloropropane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,2,3-Trichlorobenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,2,4-Trichlorobenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,2,4-Trimethylbenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,2-Dibromo-3-chloropropane	ND	9.8	1	B0F0618	06/30/2020	06/30/20 06:33	
1,2-Dibromoethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,2-Dichlorobenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,2-Dichloroethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,2-Dichloropropane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,3,5-Trimethylbenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,3-Dichlorobenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,3-Dichloropropane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
1,4-Dichlorobenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-16-5**

**Lab ID: 2001541-07**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
2-Chlorotoluene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
4-Chlorotoluene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
4-Isopropyltoluene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Benzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Bromobenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Bromochloromethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Bromodichloromethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Bromoform	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Bromomethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Carbon disulfide	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Carbon tetrachloride	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Chlorobenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Chloroethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Chloroform	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Chloromethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
cis-1,2-Dichloroethene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
cis-1,3-Dichloropropene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Di-isopropyl ether	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Dibromochloromethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Dibromomethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Dichlorodifluoromethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Ethyl Acetate	ND	49	1	B0F0618	06/30/2020	06/30/20 06:33	
Ethyl Ether	ND	49	1	B0F0618	06/30/2020	06/30/20 06:33	
Ethyl tert-butyl ether	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Ethylbenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Freon-113	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Hexachlorobutadiene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Isopropylbenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
m,p-Xylene	ND	9.8	1	B0F0618	06/30/2020	06/30/20 06:33	
Methylene chloride	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
MTBE	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
n-Butylbenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
n-Propylbenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Naphthalene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
o-Xylene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-16-5**

**Lab ID: 2001541-07**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Styrene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
tert-Amyl methyl ether	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
tert-Butanol	ND	98	1	B0F0618	06/30/2020	06/30/20 06:33	
tert-Butylbenzene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Tetrachloroethene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Toluene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
trans-1,2-Dichloroethene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
trans-1,3-Dichloropropene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Trichloroethene	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Trichlorofluoromethane	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
Vinyl acetate	ND	49	1	B0F0618	06/30/2020	06/30/20 06:33	
Vinyl chloride	ND	4.9	1	B0F0618	06/30/2020	06/30/20 06:33	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>137 %</i>	<i>58 - 160</i>		B0F0618	06/30/2020	<i>06/30/20 06:33</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>110 %</i>	<i>72 - 121</i>		B0F0618	06/30/2020	<i>06/30/20 06:33</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>121 %</i>	<i>75 - 139</i>		B0F0618	06/30/2020	<i>06/30/20 06:33</i>	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>84 - 115</i>		B0F0618	06/30/2020	<i>06/30/20 06:33</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-16-16**  
**Lab ID: 2001541-08**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.010	1	B0G0016	07/01/2020	07/02/20 11:53	
Arsenic	0.28	0.010	1	B0G0016	07/01/2020	07/02/20 11:53	
Barium	7.8	0.0030	1	B0G0016	07/01/2020	07/02/20 11:53	
Beryllium	0.028	0.0030	1	B0G0016	07/01/2020	07/02/20 11:53	
Cadmium	ND	0.0030	1	B0G0016	07/01/2020	07/02/20 11:53	
Chromium	1.4	0.0030	1	B0G0016	07/01/2020	07/02/20 11:53	
Cobalt	0.41	0.0030	1	B0G0016	07/01/2020	07/02/20 11:53	
Copper	1.3	0.0090	1	B0G0016	07/01/2020	07/02/20 11:53	
Lead	1.2	0.0050	1	B0G0016	07/01/2020	07/02/20 11:53	
Molybdenum	0.16	0.0050	1	B0G0016	07/01/2020	07/02/20 11:53	
Nickel	0.86	0.0050	1	B0G0016	07/01/2020	07/02/20 11:53	
Selenium	ND	0.010	1	B0G0016	07/01/2020	07/02/20 11:53	
Silver	0.0092	0.0030	1	B0G0016	07/01/2020	07/02/20 11:53	
Thallium	ND	0.015	1	B0G0016	07/01/2020	07/02/20 11:53	
Vanadium	1.4	0.0030	1	B0G0016	07/01/2020	07/02/20 11:53	
Zinc	3.6	0.025	1	B0G0016	07/01/2020	07/02/20 11:53	

### Mercury by AA (Cold Vapor) EPA 7470A

**Analyst: AH**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.54	0.20	1	B0G0017	07/01/2020	07/02/20 14:10	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	0.20	1	B0G0034	07/02/2020	07/02/20 12:20	
Surrogate: 4-Bromofluorobenzene	96.3 %	70 - 130		B0G0034	07/02/2020	07/02/20 12:20	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C13-C40 Total	0.63	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-16-16**  
**Lab ID: 2001541-08**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C17-C18	0.05	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C19-C20	0.07	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C21-C22	0.07	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C23-C24	0.08	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C23-C40	0.37	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C25-C26	ND	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C27-C28	ND	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C29-C32	0.07	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C33-C36	0.07	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
C37-C40	0.05	0.05	1	B0G0009	07/01/2020	07/02/20 19:09	
Surrogate: <i>p</i> -Terphenyl	73.2 %	32 - 169		B0G0009	07/01/2020	07/02/20 19:09	

## Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,1,1-Trichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,1,2-Trichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,1-Dichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,1-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,1-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,2,3-Trichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,2,3-Trichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,2,4-Trichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,2,4-Trimethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,2-Dibromoethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,2-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,2-Dichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,2-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,3,5-Trimethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,3-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
1,3-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-16-16**  
**Lab ID: 2001541-08**

### Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time	Notes
	(ug/L)	(ug/L)				Analyzed	
1,4-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
2,2-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
2-Chlorotoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
4-Chlorotoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
4-Isopropyltoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Benzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Bromobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Bromochloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Bromodichloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Bromoform	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Bromomethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Carbon disulfide	ND	1.0	1	B0F0638	06/30/2020	06/30/20 17:38	
Carbon tetrachloride	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Chlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Chloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Chloroform	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Chloromethane	ND	0.50	1	B0G0003	07/01/2020	07/01/20 15:17	
cis-1,2-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
cis-1,3-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Di-isopropyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Dibromochloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Dibromomethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Dichlorodifluoromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Ethyl Acetate	ND	10	1	B0F0638	06/30/2020	06/30/20 17:38	
Ethyl Ether	ND	10	1	B0F0638	06/30/2020	06/30/20 17:38	
Ethyl tert-butyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Ethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Freon-113	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Hexachlorobutadiene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Isopropylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
m,p-Xylene	ND	1.0	1	B0F0638	06/30/2020	06/30/20 17:38	
Methylene chloride	ND	1.0	1	B0F0638	06/30/2020	06/30/20 17:38	
MTBE	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
n-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
n-Propylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Naphthalene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

**Client Sample ID: ND-16-16**  
**Lab ID: 2001541-08**

**Volatile Organic Compounds by EPA 8260B**

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
sec-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Styrene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
tert-Amyl methyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
<b>tert-Butanol</b>	<b>27</b>	<b>10</b>	<b>1</b>	<b>B0F0638</b>	<b>06/30/2020</b>	<b>06/30/20 17:38</b>	
tert-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Tetrachloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Toluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
trans-1,2-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
trans-1,3-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Trichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Trichlorofluoromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
Vinyl acetate	ND	10	1	B0F0638	06/30/2020	06/30/20 17:38	
Vinyl chloride	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:38	
<hr/>							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>121 %</i>	<i>59 - 158</i>		B0F0638	06/30/2020	06/30/20 17:38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>139 %</i>	<i>59 - 158</i>		B0G0003	07/01/2020	07/01/20 15:17	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>	<i>71 - 127</i>		B0F0638	06/30/2020	06/30/20 17:38	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>107 %</i>	<i>71 - 127</i>		B0G0003	07/01/2020	07/01/20 15:17	
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>	<i>66 - 147</i>		B0G0003	07/01/2020	07/01/20 15:17	
<i>Surrogate: Dibromofluoromethane</i>	<i>116 %</i>	<i>66 - 147</i>		B0F0638	06/30/2020	06/30/20 17:38	
<i>Surrogate: Toluene-d8</i>	<i>100 %</i>	<i>77 - 138</i>		B0F0638	06/30/2020	06/30/20 17:38	
<i>Surrogate: Toluene-d8</i>	<i>109 %</i>	<i>77 - 138</i>		B0G0003	07/01/2020	07/01/20 15:17	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-15-2**  
**Lab ID: 2001541-09**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:35	
Arsenic	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
<b>Barium</b>	<b>34</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
<b>Chromium</b>	<b>7.2</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
<b>Cobalt</b>	<b>2.5</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
<b>Copper</b>	<b>5.8</b>	2.0	1	B0G0020	07/01/2020	07/02/20 12:35	
<b>Lead</b>	<b>2.8</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
Molybdenum	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
<b>Nickel</b>	<b>4.7</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
<b>Vanadium</b>	<b>13</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	
<b>Zinc</b>	<b>15</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:35	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:33	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0091	07/07/2020	07/07/20 04:48	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>75.9 %</i>	<i>45 - 149</i>		B0G0091	07/07/2020	07/07/20 04:48	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	100	100	B0F0660	06/30/2020	07/02/20 06:04	
<b>C13-C40 Total</b>	<b>6000</b>	100	100	B0F0660	06/30/2020	07/02/20 06:04	



# Certificate of Analysis

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**Client Sample ID: ND-15-2**  
**Lab ID: 2001541-09**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	100	100	B0F0660	06/30/2020	07/02/20 06:04	
C17-C18	ND	100	100	B0F0660	06/30/2020	07/02/20 06:04	
C19-C20	ND	100	100	B0F0660	06/30/2020	07/02/20 06:04	
C21-C22	ND	100	100	B0F0660	06/30/2020	07/02/20 06:04	
C23-C24	ND	100	100	B0F0660	06/30/2020	07/02/20 06:04	
C25-C26	150	100	100	B0F0660	06/30/2020	07/02/20 06:04	
C27-C28	220	100	100	B0F0660	06/30/2020	07/02/20 06:04	
C29-C32	990	100	100	B0F0660	06/30/2020	07/02/20 06:04	
C33-C36	1700	100	100	B0F0660	06/30/2020	07/02/20 06:04	
C37-C40	2800	100	100	B0F0660	06/30/2020	07/02/20 06:04	
Surrogate: p-Terphenyl	68.7 %	15 - 110		B0F0660	06/30/2020	07/02/20 06:04	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,1,1-Trichloroethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,1,2,2-Tetrachloroethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,1,2-Trichloroethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,1-Dichloroethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,1-Dichloroethene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,1-Dichloropropene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,2,3-Trichloropropane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,2,3-Trichlorobenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,2,4-Trichlorobenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,2,4-Trimethylbenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,2-Dibromo-3-chloropropane	ND	17	1	B0F0618	06/30/2020	06/30/20 06:54	
1,2-Dibromoethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,2-Dichlorobenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,2-Dichloroethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,2-Dichloropropane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,3,5-Trimethylbenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,3-Dichlorobenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,3-Dichloropropane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
1,4-Dichlorobenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-15-2**

**Lab ID: 2001541-09**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
2-Chlorotoluene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
4-Chlorotoluene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
4-Isopropyltoluene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Benzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Bromobenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Bromochloromethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Bromodichloromethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Bromoform	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Bromomethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Carbon disulfide	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Carbon tetrachloride	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Chlorobenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Chloroethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Chloroform	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Chloromethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
cis-1,2-Dichloroethene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
cis-1,3-Dichloropropene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Di-isopropyl ether	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Dibromochloromethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Dibromomethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Dichlorodifluoromethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Ethyl Acetate	ND	86	1	B0F0618	06/30/2020	06/30/20 06:54	
Ethyl Ether	ND	86	1	B0F0618	06/30/2020	06/30/20 06:54	
Ethyl tert-butyl ether	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Ethylbenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Freon-113	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Hexachlorobutadiene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Isopropylbenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
m,p-Xylene	ND	17	1	B0F0618	06/30/2020	06/30/20 06:54	
Methylene chloride	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
MTBE	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
n-Butylbenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
n-Propylbenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Naphthalene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
o-Xylene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	



# Certificate of Analysis

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Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-15-2**

**Lab ID: 2001541-09**

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Styrene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
tert-Amyl methyl ether	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
tert-Butanol	ND	170	1	B0F0618	06/30/2020	06/30/20 06:54	
tert-Butylbenzene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Tetrachloroethene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Toluene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
trans-1,2-Dichloroethene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
trans-1,3-Dichloropropene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Trichloroethene	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Trichlorofluoromethane	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
Vinyl acetate	ND	86	1	B0F0618	06/30/2020	06/30/20 06:54	
Vinyl chloride	ND	8.6	1	B0F0618	06/30/2020	06/30/20 06:54	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>139 %</i>	<i>58 - 160</i>		B0F0618	06/30/2020	<i>06/30/20 06:54</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>106 %</i>	<i>72 - 121</i>		B0F0618	06/30/2020	<i>06/30/20 06:54</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>123 %</i>	<i>75 - 139</i>		B0F0618	06/30/2020	<i>06/30/20 06:54</i>	
<i>Surrogate: Toluene-d8</i>	<i>111 %</i>	<i>84 - 115</i>		B0F0618	06/30/2020	<i>06/30/20 06:54</i>	

## Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Acenaphthene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Acenaphthylene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Anthracene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Benzo(a)anthracene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Benzo(a)pyrene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Benzo(b)fluoranthene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Benzo(g,h,i)perylene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Benzo(k)fluoranthene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Chrysene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Dibenz(a,h)anthracene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Fluoranthene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Fluorene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Indeno(1,2,3-cd)pyrene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1



## Certificate of Analysis

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Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-15-2**

**Lab ID: 2001541-09**

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Naphthalene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Phenanthrene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
Pyrene	ND	250	50	B0G0164	07/09/2020	07/13/20 16:40	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>12 - 125</i>		B0G0164	07/09/2020	07/13/20 16:40	S4
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>	<i>14 - 139</i>		B0G0164	07/09/2020	07/13/20 16:40	S4
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>	<i>8 - 155</i>		B0G0164	07/09/2020	07/13/20 16:40	S4
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>	<i>16 - 152</i>		B0G0164	07/09/2020	07/13/20 16:40	S4



## Certificate of Analysis

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Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-15-6.5**  
**Lab ID: 2001541-10**

### Title 22 Metals by ICP-AES EPA 6010B

Analyst: TA

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:36	
<b>Arsenic</b>	<b>2.9</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
<b>Barium</b>	<b>88</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
<b>Chromium</b>	<b>17</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
<b>Cobalt</b>	<b>5.4</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
<b>Copper</b>	<b>17</b>	2.0	1	B0G0020	07/01/2020	07/02/20 12:36	
<b>Lead</b>	<b>10</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
Molybdenum	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
<b>Nickel</b>	<b>12</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
<b>Vanadium</b>	<b>32</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	
<b>Zinc</b>	<b>51</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:36	

### Mercury by AA (Cold Vapor) EPA 7471A

Analyst: AH

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:36	

### Gasoline Range Organics by EPA 8015B (Modified)

Analyst: Kur

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0091	07/07/2020	07/07/20 05:11	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>76.1 %</i>	<i>45 - 149</i>		B0G0091	07/07/2020	07/07/20 05:11	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
<b>C13-C40 Total</b>	<b>46</b>	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	





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Project Number : New Dock, CM20167740  
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Reported : 07/15/2020

**Client Sample ID: ND-15-6.5**  
**Lab ID: 2001541-10**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
C17-C18	ND	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
<b>C19-C20</b>	<b>1.2</b>	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
<b>C21-C22</b>	<b>1.9</b>	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
<b>C23-C24</b>	<b>2.3</b>	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
<b>C25-C26</b>	<b>2.0</b>	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
<b>C27-C28</b>	<b>2.9</b>	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
<b>C29-C32</b>	<b>8.1</b>	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
<b>C33-C36</b>	<b>11</b>	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
<b>C37-C40</b>	<b>15</b>	1.0	1	B0F0660	06/30/2020	07/01/20 21:53	
<i>Surrogate: p-Terphenyl</i>	<i>110 %</i>	<i>15 - 110</i>		B0F0660	06/30/2020	07/01/20 21:53	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,1,1-Trichloroethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,1,2,2-Tetrachloroethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,1,2-Trichloroethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,1-Dichloroethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,1-Dichloroethene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,1-Dichloropropene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,2,3-Trichloropropane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,2,3-Trichlorobenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,2,4-Trichlorobenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,2,4-Trimethylbenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,2-Dibromo-3-chloropropane	ND	6.8	1	B0F0640	06/30/2020	06/30/20 12:07	
1,2-Dibromoethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,2-Dichlorobenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,2-Dichloroethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,2-Dichloropropane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,3,5-Trimethylbenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,3-Dichlorobenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,3-Dichloropropane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
1,4-Dichlorobenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-15-6.5**

**Lab ID: 2001541-10**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
2-Chlorotoluene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
4-Chlorotoluene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
4-Isopropyltoluene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Benzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Bromobenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Bromochloromethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Bromodichloromethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Bromoform	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Bromomethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Carbon disulfide	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Carbon tetrachloride	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Chlorobenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Chloroethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Chloroform	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Chloromethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
cis-1,2-Dichloroethene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
cis-1,3-Dichloropropene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Di-isopropyl ether	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Dibromochloromethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Dibromomethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Dichlorodifluoromethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Ethyl Acetate	ND	34	1	B0F0640	06/30/2020	06/30/20 12:07	
Ethyl Ether	ND	34	1	B0F0640	06/30/2020	06/30/20 12:07	
Ethyl tert-butyl ether	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Ethylbenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Freon-113	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Hexachlorobutadiene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Isopropylbenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
m,p-Xylene	ND	6.8	1	B0F0640	06/30/2020	06/30/20 12:07	
Methylene chloride	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
MTBE	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
n-Butylbenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
n-Propylbenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Naphthalene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
o-Xylene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-15-6.5**

**Lab ID: 2001541-10**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Styrene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
tert-Amyl methyl ether	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
tert-Butanol	ND	68	1	B0F0640	06/30/2020	06/30/20 12:07	
tert-Butylbenzene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Tetrachloroethene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Toluene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
trans-1,2-Dichloroethene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
trans-1,3-Dichloropropene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Trichloroethene	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Trichlorofluoromethane	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
Vinyl acetate	ND	34	1	B0F0640	06/30/2020	06/30/20 12:07	
Vinyl chloride	ND	3.4	1	B0F0640	06/30/2020	06/30/20 12:07	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>129 %</i>	<i>58 - 160</i>		B0F0640	06/30/2020	<i>06/30/20 12:07</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>	<i>72 - 121</i>		B0F0640	06/30/2020	<i>06/30/20 12:07</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>109 %</i>	<i>75 - 139</i>		B0F0640	06/30/2020	<i>06/30/20 12:07</i>	
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>	<i>84 - 115</i>		B0F0640	06/30/2020	<i>06/30/20 12:07</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-15-16**

**Lab ID: 2001541-11**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.010	1	B0G0016	07/01/2020	07/02/20 11:55	
Arsenic	0.36	0.010	1	B0G0016	07/01/2020	07/02/20 11:55	
Barium	8.4	0.0030	1	B0G0016	07/01/2020	07/02/20 11:55	
Beryllium	0.034	0.0030	1	B0G0016	07/01/2020	07/02/20 11:55	
Cadmium	ND	0.0030	1	B0G0016	07/01/2020	07/02/20 11:55	
Chromium	1.5	0.0030	1	B0G0016	07/01/2020	07/02/20 11:55	
Cobalt	0.51	0.0030	1	B0G0016	07/01/2020	07/02/20 11:55	
Copper	1.6	0.0090	1	B0G0016	07/01/2020	07/02/20 11:55	
Lead	1.1	0.0050	1	B0G0016	07/01/2020	07/02/20 11:55	
Molybdenum	0.19	0.0050	1	B0G0016	07/01/2020	07/02/20 11:55	
Nickel	0.89	0.0050	1	B0G0016	07/01/2020	07/02/20 11:55	
Selenium	ND	0.010	1	B0G0016	07/01/2020	07/02/20 11:55	
Silver	0.012	0.0030	1	B0G0016	07/01/2020	07/02/20 11:55	
Thallium	ND	0.015	1	B0G0016	07/01/2020	07/02/20 11:55	
Vanadium	1.6	0.0030	1	B0G0016	07/01/2020	07/02/20 11:55	
Zinc	4.0	0.025	1	B0G0016	07/01/2020	07/02/20 11:55	

### Mercury by AA (Cold Vapor) EPA 7470A

**Analyst: AH**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	1.1	0.20	1	B0G0017	07/01/2020	07/02/20 14:13	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	0.20	1	B0G0034	07/02/2020	07/02/20 11:54	P1
Surrogate: 4-Bromofluorobenzene	101 %	70 - 130		B0G0034	07/02/2020	07/02/20 11:54	P1

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
C13-C40 Total	0.53	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	



## Certificate of Analysis

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Project Number : New Dock, CM20167740  
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Reported : 07/15/2020

**Client Sample ID: ND-15-16**

**Lab ID: 2001541-11**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
C17-C18	ND	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
C19-C20	ND	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
<b>C21-C22</b>	<b>0.06</b>	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
<b>C23-C24</b>	<b>0.08</b>	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
<b>C23-C40</b>	<b>0.36</b>	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
<b>C25-C26</b>	<b>0.05</b>	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
<b>C27-C28</b>	<b>0.05</b>	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
<b>C29-C32</b>	<b>0.05</b>	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
<b>C33-C36</b>	<b>0.07</b>	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
C37-C40	ND	0.05	1	B0G0009	07/01/2020	07/02/20 18:53	
<i>Surrogate: p-Terphenyl</i>	<i>71.0 %</i>	<i>32 - 169</i>		B0G0009	07/01/2020	07/02/20 18:53	

### Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,1,1-Trichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,1,2-Trichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,1-Dichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,1-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,1-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,2,3-Trichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,2,3-Trichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,2,4-Trichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,2,4-Trimethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,2-Dibromoethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,2-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,2-Dichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,2-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,3,5-Trimethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,3-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
1,3-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-15-16**

**Lab ID: 2001541-11**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time	Notes
	(ug/L)	(ug/L)				Analyzed	
1,4-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
2,2-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
2-Chlorotoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
4-Chlorotoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
4-Isopropyltoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Benzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Bromobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Bromochloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Bromodichloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Bromoform	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Bromomethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Carbon disulfide	ND	1.0	1	B0F0638	06/30/2020	06/30/20 17:59	
Carbon tetrachloride	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Chlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Chloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Chloroform	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Chloromethane	ND	0.50	1	B0G0003	07/01/2020	07/01/20 15:35	
cis-1,2-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
cis-1,3-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Di-isopropyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Dibromochloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Dibromomethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Dichlorodifluoromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Ethyl Acetate	ND	10	1	B0F0638	06/30/2020	06/30/20 17:59	
Ethyl Ether	ND	10	1	B0F0638	06/30/2020	06/30/20 17:59	
Ethyl tert-butyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Ethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Freon-113	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Hexachlorobutadiene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Isopropylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
m,p-Xylene	ND	1.0	1	B0F0638	06/30/2020	06/30/20 17:59	
Methylene chloride	ND	1.0	1	B0F0638	06/30/2020	06/30/20 17:59	
MTBE	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
n-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
n-Propylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Naphthalene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-15-16**

**Lab ID: 2001541-11**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
sec-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Styrene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
tert-Amyl methyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
<b>tert-Butanol</b>	<b>11</b>	10	1	B0F0638	06/30/2020	06/30/20 17:59	
tert-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Tetrachloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Toluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
trans-1,2-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
trans-1,3-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Trichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Trichlorofluoromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
Vinyl acetate	ND	10	1	B0F0638	06/30/2020	06/30/20 17:59	
Vinyl chloride	ND	0.50	1	B0F0638	06/30/2020	06/30/20 17:59	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>119 %</i>	<i>59 - 158</i>		B0F0638	06/30/2020	06/30/20 17:59	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>150 %</i>	<i>59 - 158</i>		B0G0003	07/01/2020	07/01/20 15:35	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.8 %</i>	<i>71 - 127</i>		B0F0638	06/30/2020	06/30/20 17:59	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>105 %</i>	<i>71 - 127</i>		B0G0003	07/01/2020	07/01/20 15:35	
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>	<i>66 - 147</i>		B0F0638	06/30/2020	06/30/20 17:59	
<i>Surrogate: Dibromofluoromethane</i>	<i>116 %</i>	<i>66 - 147</i>		B0G0003	07/01/2020	07/01/20 15:35	
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>	<i>77 - 138</i>		B0F0638	06/30/2020	06/30/20 17:59	
<i>Surrogate: Toluene-d8</i>	<i>112 %</i>	<i>77 - 138</i>		B0G0003	07/01/2020	07/01/20 15:35	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-11-2.5**

**Lab ID: 2001541-12**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:38	
<b>Arsenic</b>	<b>1.4</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
<b>Barium</b>	<b>61</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
<b>Chromium</b>	<b>15</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
<b>Cobalt</b>	<b>4.1</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
<b>Copper</b>	<b>9.7</b>	2.0	1	B0G0020	07/01/2020	07/02/20 12:38	
<b>Lead</b>	<b>6.6</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
Molybdenum	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
<b>Nickel</b>	<b>9.9</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
<b>Vanadium</b>	<b>26</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	
<b>Zinc</b>	<b>31</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:38	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:38	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0091	07/07/2020	07/07/20 05:34	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77.0 %</i>	<i>45 - 149</i>		B0G0091	07/07/2020	07/07/20 05:34	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
<b>C13-C40 Total</b>	<b>40</b>	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	





# Certificate of Analysis

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**Client Sample ID: ND-11-2.5**  
**Lab ID: 2001541-12**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
C17-C18	ND	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
C19-C20	ND	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
<b>C21-C22</b>	<b>1.3</b>	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
<b>C23-C24</b>	<b>1.6</b>	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
<b>C25-C26</b>	<b>1.1</b>	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
<b>C27-C28</b>	<b>1.8</b>	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
<b>C29-C32</b>	<b>6.6</b>	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
<b>C33-C36</b>	<b>11</b>	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
<b>C37-C40</b>	<b>15</b>	1.0	1	B0F0660	06/30/2020	07/01/20 22:11	
<i>Surrogate: p-Terphenyl</i>	<i>93.0 %</i>	<i>15 - 110</i>		B0F0660	06/30/2020	07/01/20 22:11	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,1,1-Trichloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,1,2,2-Tetrachloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,1,2-Trichloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,1-Dichloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,1-Dichloroethene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,1-Dichloropropene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,2,3-Trichloropropane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,2,3-Trichlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,2,4-Trichlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,2,4-Trimethylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,2-Dibromo-3-chloropropane	ND	9.0	1	B0F0618	06/30/2020	06/30/20 07:16	
1,2-Dibromoethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,2-Dichlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,2-Dichloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,2-Dichloropropane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,3,5-Trimethylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,3-Dichlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,3-Dichloropropane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
1,4-Dichlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-11-2.5**

**Lab ID: 2001541-12**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
2-Chlorotoluene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
4-Chlorotoluene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
4-Isopropyltoluene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Benzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Bromobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Bromochloromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Bromodichloromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Bromoform	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Bromomethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Carbon disulfide	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Carbon tetrachloride	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Chlorobenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Chloroethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Chloroform	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Chloromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
cis-1,2-Dichloroethene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
cis-1,3-Dichloropropene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Di-isopropyl ether	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Dibromochloromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Dibromomethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Dichlorodifluoromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Ethyl Acetate	ND	45	1	B0F0618	06/30/2020	06/30/20 07:16	
Ethyl Ether	ND	45	1	B0F0618	06/30/2020	06/30/20 07:16	
Ethyl tert-butyl ether	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Ethylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Freon-113	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Hexachlorobutadiene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Isopropylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
m,p-Xylene	ND	9.0	1	B0F0618	06/30/2020	06/30/20 07:16	
Methylene chloride	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
MTBE	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
n-Butylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
n-Propylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Naphthalene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
o-Xylene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-11-2.5**

**Lab ID: 2001541-12**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Styrene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
tert-Amyl methyl ether	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
tert-Butanol	ND	90	1	B0F0618	06/30/2020	06/30/20 07:16	
tert-Butylbenzene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Tetrachloroethene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Toluene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
trans-1,2-Dichloroethene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
trans-1,3-Dichloropropene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Trichloroethene	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Trichlorofluoromethane	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
Vinyl acetate	ND	45	1	B0F0618	06/30/2020	06/30/20 07:16	
Vinyl chloride	ND	4.5	1	B0F0618	06/30/2020	06/30/20 07:16	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>155 %</i>	<i>58 - 160</i>		B0F0618	06/30/2020	<i>06/30/20 07:16</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>	<i>72 - 121</i>		B0F0618	06/30/2020	<i>06/30/20 07:16</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>134 %</i>	<i>75 - 139</i>		B0F0618	06/30/2020	<i>06/30/20 07:16</i>	
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>	<i>84 - 115</i>		B0F0618	06/30/2020	<i>06/30/20 07:16</i>	



# Certificate of Analysis

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Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-11-5.5**

**Lab ID: 2001541-13**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:39	
<b>Arsenic</b>	<b>3.4</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
<b>Barium</b>	<b>97</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
<b>Chromium</b>	<b>20</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
<b>Cobalt</b>	<b>7.0</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
<b>Copper</b>	<b>21</b>	2.0	1	B0G0020	07/01/2020	07/02/20 12:39	
<b>Lead</b>	<b>8.2</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
Molybdenum	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
<b>Nickel</b>	<b>16</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
<b>Vanadium</b>	<b>35</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	
<b>Zinc</b>	<b>41</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:39	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:41	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0092	07/07/2020	07/07/20 10:05	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>70.1 %</i>	<i>45 - 149</i>		B0G0092	07/07/2020	07/07/20 10:05	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	50	50	B0F0660	06/30/2020	07/02/20 05:29	
<b>C13-C40 Total</b>	<b>3600</b>	50	50	B0F0660	06/30/2020	07/02/20 05:29	



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**Client Sample ID: ND-11-5.5**

**Lab ID: 2001541-13**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	50	50	B0F0660	06/30/2020	07/02/20 05:29	
C17-C18	ND	50	50	B0F0660	06/30/2020	07/02/20 05:29	
C19-C20	ND	50	50	B0F0660	06/30/2020	07/02/20 05:29	
C21-C22	ND	50	50	B0F0660	06/30/2020	07/02/20 05:29	
<b>C23-C24</b>	<b>53</b>	50	50	B0F0660	06/30/2020	07/02/20 05:29	
<b>C25-C26</b>	<b>99</b>	50	50	B0F0660	06/30/2020	07/02/20 05:29	
<b>C27-C28</b>	<b>160</b>	50	50	B0F0660	06/30/2020	07/02/20 05:29	
<b>C29-C32</b>	<b>620</b>	50	50	B0F0660	06/30/2020	07/02/20 05:29	
<b>C33-C36</b>	<b>1100</b>	50	50	B0F0660	06/30/2020	07/02/20 05:29	
<b>C37-C40</b>	<b>1600</b>	50	50	B0F0660	06/30/2020	07/02/20 05:29	
<i>Surrogate: p-Terphenyl</i>	<i>93.1 %</i>	<i>15 - 110</i>		B0F0660	06/30/2020	07/02/20 05:29	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,1,1-Trichloroethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,1,2,2-Tetrachloroethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,1,2-Trichloroethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,1-Dichloroethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,1-Dichloroethene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,1-Dichloropropene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,2,3-Trichloropropane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,2,3-Trichlorobenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,2,4-Trichlorobenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,2,4-Trimethylbenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,2-Dibromo-3-chloropropane	ND	8.2	1	B0F0618	06/30/2020	06/30/20 07:38	
1,2-Dibromoethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,2-Dichlorobenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,2-Dichloroethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,2-Dichloropropane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,3,5-Trimethylbenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,3-Dichlorobenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,3-Dichloropropane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
1,4-Dichlorobenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-11-5.5**

**Lab ID: 2001541-13**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
2-Chlorotoluene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
4-Chlorotoluene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
4-Isopropyltoluene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Benzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Bromobenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Bromochloromethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Bromodichloromethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Bromoform	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Bromomethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Carbon disulfide	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Carbon tetrachloride	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Chlorobenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Chloroethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Chloroform	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Chloromethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
cis-1,2-Dichloroethene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
cis-1,3-Dichloropropene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Di-isopropyl ether	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Dibromochloromethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Dibromomethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Dichlorodifluoromethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Ethyl Acetate	ND	41	1	B0F0618	06/30/2020	06/30/20 07:38	
Ethyl Ether	ND	41	1	B0F0618	06/30/2020	06/30/20 07:38	
Ethyl tert-butyl ether	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Ethylbenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Freon-113	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Hexachlorobutadiene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Isopropylbenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
m,p-Xylene	ND	8.2	1	B0F0618	06/30/2020	06/30/20 07:38	
Methylene chloride	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
MTBE	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
n-Butylbenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
n-Propylbenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Naphthalene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
o-Xylene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-11-5.5**

**Lab ID: 2001541-13**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Styrene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
tert-Amyl methyl ether	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
tert-Butanol	ND	82	1	B0F0618	06/30/2020	06/30/20 07:38	
tert-Butylbenzene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Tetrachloroethene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Toluene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
trans-1,2-Dichloroethene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
trans-1,3-Dichloropropene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Trichloroethene	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Trichlorofluoromethane	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
Vinyl acetate	ND	41	1	B0F0618	06/30/2020	06/30/20 07:38	
Vinyl chloride	ND	4.1	1	B0F0618	06/30/2020	06/30/20 07:38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>138 %</i>	<i>58 - 160</i>		B0F0618	06/30/2020	<i>06/30/20 07:38</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>	<i>72 - 121</i>		B0F0618	06/30/2020	<i>06/30/20 07:38</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>118 %</i>	<i>75 - 139</i>		B0F0618	06/30/2020	<i>06/30/20 07:38</i>	
<i>Surrogate: Toluene-d8</i>	<i>107 %</i>	<i>84 - 115</i>		B0F0618	06/30/2020	<i>06/30/20 07:38</i>	

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Acenaphthene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Acenaphthylene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Anthracene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Benzo(a)anthracene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Benzo(a)pyrene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Benzo(b)fluoranthene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Benzo(g,h,i)perylene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Benzo(k)fluoranthene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Chrysene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Dibenz(a,h)anthracene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Fluoranthene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Fluorene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Indeno(1,2,3-cd)pyrene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	



## Certificate of Analysis

Wood PLC

3560 Hyland Ave, Suite 100

Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-11-5.5**

**Lab ID: 2001541-13**

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Naphthalene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Phenanthrene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
Pyrene	ND	5.0	1	B0G0164	07/09/2020	07/13/20 17:08	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>50.1 %</i>	<i>12 - 125</i>		B0G0164	07/09/2020	07/13/20 17:08	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>61.2 %</i>	<i>14 - 139</i>		B0G0164	07/09/2020	07/13/20 17:08	
<i>Surrogate: Nitrobenzene-d5</i>	<i>45.1 %</i>	<i>8 - 155</i>		B0G0164	07/09/2020	07/13/20 17:08	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>56.2 %</i>	<i>16 - 152</i>		B0G0164	07/09/2020	07/13/20 17:08	





## Certificate of Analysis

Wood PLC  
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Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-12-3**  
**Lab ID: 2001541-14**

### Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:40	
<b>Arsenic</b>	<b>3.4</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
<b>Barium</b>	<b>130</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
<b>Chromium</b>	<b>21</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
<b>Cobalt</b>	<b>4.9</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
<b>Copper</b>	<b>30</b>	2.0	1	B0G0020	07/01/2020	07/02/20 12:40	
<b>Lead</b>	<b>18</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
<b>Molybdenum</b>	<b>1.3</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
<b>Nickel</b>	<b>17</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
<b>Vanadium</b>	<b>32</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	
<b>Zinc</b>	<b>61</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:40	

### Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	<b>0.14</b>	0.10	1	B0G0023	07/01/2020	07/02/20 14:43	

### Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0092	07/07/2020	07/07/20 10:51	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>71.5 %</i>	<i>45 - 149</i>		B0G0092	07/07/2020	07/07/20 10:51	

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<b>C13-C14</b>	<b>2.3</b>	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
<b>C13-C40 Total</b>	<b>210</b>	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	



# Certificate of Analysis

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Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
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**Client Sample ID: ND-12-3**

**Lab ID: 2001541-14**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	5.6	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
C17-C18	7.1	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
C19-C20	6.2	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
C21-C22	6.6	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
C23-C24	7.5	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
C25-C26	9.1	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
C27-C28	12	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
C29-C32	39	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
C33-C36	49	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
C37-C40	62	2.0	2	B0F0661	06/30/2020	07/02/20 04:19	
Surrogate: <i>p</i> -Terphenyl	117 %	15 - 110		B0F0661	06/30/2020	07/02/20 04:19	S5

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,1,1-Trichloroethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,1,2,2-Tetrachloroethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,1,2-Trichloroethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,1-Dichloroethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,1-Dichloroethene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,1-Dichloropropene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,2,3-Trichloropropane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,2,3-Trichlorobenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,2,4-Trichlorobenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,2,4-Trimethylbenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,2-Dibromo-3-chloropropane	ND	12	1	B0F0618	06/30/2020	06/30/20 07:59	
1,2-Dibromoethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,2-Dichlorobenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,2-Dichloroethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,2-Dichloropropane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,3,5-Trimethylbenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,3-Dichlorobenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,3-Dichloropropane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
1,4-Dichlorobenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-12-3**

**Lab ID: 2001541-14**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
2-Chlorotoluene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
4-Chlorotoluene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
4-Isopropyltoluene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Benzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Bromobenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Bromochloromethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Bromodichloromethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Bromoform	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Bromomethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
<b>Carbon disulfide</b>	<b>8.6</b>	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Carbon tetrachloride	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Chlorobenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Chloroethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Chloroform	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Chloromethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
cis-1,2-Dichloroethene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
cis-1,3-Dichloropropene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Di-isopropyl ether	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Dibromochloromethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Dibromomethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Dichlorodifluoromethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Ethyl Acetate	ND	61	1	B0F0618	06/30/2020	06/30/20 07:59	
Ethyl Ether	ND	61	1	B0F0618	06/30/2020	06/30/20 07:59	
Ethyl tert-butyl ether	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Ethylbenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Freon-113	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Hexachlorobutadiene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Isopropylbenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
m,p-Xylene	ND	12	1	B0F0618	06/30/2020	06/30/20 07:59	
Methylene chloride	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
MTBE	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
n-Butylbenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
n-Propylbenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Naphthalene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
o-Xylene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

**Client Sample ID: ND-12-3**  
**Lab ID: 2001541-14**

**Volatile Organic Compounds by EPA 5035 / EPA 8260B**

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Styrene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
tert-Amyl methyl ether	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
tert-Butanol	ND	120	1	B0F0618	06/30/2020	06/30/20 07:59	
tert-Butylbenzene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Tetrachloroethene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Toluene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
trans-1,2-Dichloroethene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
trans-1,3-Dichloropropene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Trichloroethene	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Trichlorofluoromethane	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
Vinyl acetate	ND	61	1	B0F0618	06/30/2020	06/30/20 07:59	
Vinyl chloride	ND	6.1	1	B0F0618	06/30/2020	06/30/20 07:59	
<hr/>							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>156 %</i>	<i>58 - 160</i>		B0F0618	06/30/2020	06/30/20 07:59	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>106 %</i>	<i>72 - 121</i>		B0F0618	06/30/2020	06/30/20 07:59	
<i>Surrogate: Dibromofluoromethane</i>	<i>131 %</i>	<i>75 - 139</i>		B0F0618	06/30/2020	06/30/20 07:59	
<i>Surrogate: Toluene-d8</i>	<i>109 %</i>	<i>84 - 115</i>		B0F0618	06/30/2020	06/30/20 07:59	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-12-6**  
**Lab ID: 2001541-15**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Arsenic	3.5	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Barium	150	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Chromium	21	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Cobalt	4.7	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Copper	27	2.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Lead	19	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Molybdenum	2.4	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Nickel	17	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Vanadium	33	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	
Zinc	59	1.0	1	B0G0020	07/01/2020	07/02/20 12:42	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:46	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0092	07/07/2020	07/07/20 11:14	
Surrogate: 4-Bromofluorobenzene	74.6 %	45 - 149		B0G0092	07/07/2020	07/07/20 11:14	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	8.0	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
C13-C40 Total	690	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-12-6**  
**Lab ID: 2001541-15**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	26	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
C17-C18	30	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
C19-C20	19	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
C21-C22	13	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
C23-C24	13	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
C25-C26	21	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
C27-C28	33	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
C29-C32	130	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
C33-C36	170	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
C37-C40	220	5.0	5	B0F0661	06/30/2020	07/02/20 06:21	
Surrogate: <i>p</i> -Terphenyl	109 %	15 - 110		B0F0661	06/30/2020	07/02/20 06:21	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,1,1-Trichloroethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,1,2,2-Tetrachloroethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,1,2-Trichloroethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,1-Dichloroethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,1-Dichloroethene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,1-Dichloropropene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,2,3-Trichloropropane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,2,3-Trichlorobenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,2,4-Trichlorobenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,2,4-Trimethylbenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,2-Dibromo-3-chloropropane	ND	18	1	B0F0640	06/30/2020	06/30/20 12:28	
1,2-Dibromoethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,2-Dichlorobenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,2-Dichloroethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,2-Dichloropropane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,3,5-Trimethylbenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,3-Dichlorobenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,3-Dichloropropane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
1,4-Dichlorobenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-12-6**

**Lab ID: 2001541-15**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
2-Chlorotoluene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
4-Chlorotoluene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
4-Isopropyltoluene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Benzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Bromobenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Bromochloromethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Bromodichloromethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Bromoform	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Bromomethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Carbon disulfide	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Carbon tetrachloride	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Chlorobenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Chloroethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Chloroform	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Chloromethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
cis-1,2-Dichloroethene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
cis-1,3-Dichloropropene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Di-isopropyl ether	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Dibromochloromethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Dibromomethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Dichlorodifluoromethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Ethyl Acetate	ND	88	1	B0F0640	06/30/2020	06/30/20 12:28	
Ethyl Ether	ND	88	1	B0F0640	06/30/2020	06/30/20 12:28	
Ethyl tert-butyl ether	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Ethylbenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Freon-113	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Hexachlorobutadiene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Isopropylbenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
m,p-Xylene	ND	18	1	B0F0640	06/30/2020	06/30/20 12:28	
Methylene chloride	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
MTBE	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
n-Butylbenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
n-Propylbenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Naphthalene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
o-Xylene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-12-6**

**Lab ID: 2001541-15**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Styrene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
tert-Amyl methyl ether	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
tert-Butanol	ND	180	1	B0F0640	06/30/2020	06/30/20 12:28	
tert-Butylbenzene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Tetrachloroethene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Toluene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
trans-1,2-Dichloroethene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
trans-1,3-Dichloropropene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Trichloroethene	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Trichlorofluoromethane	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
Vinyl acetate	ND	88	1	B0F0640	06/30/2020	06/30/20 12:28	
Vinyl chloride	ND	8.8	1	B0F0640	06/30/2020	06/30/20 12:28	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>142 %</i>	<i>58 - 160</i>		B0F0640	06/30/2020	<i>06/30/20 12:28</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90.3 %</i>	<i>72 - 121</i>		B0F0640	06/30/2020	<i>06/30/20 12:28</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>121 %</i>	<i>75 - 139</i>		B0F0640	06/30/2020	<i>06/30/20 12:28</i>	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	<i>84 - 115</i>		B0F0640	06/30/2020	<i>06/30/20 12:28</i>	





# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-3-2.5**

**Lab ID: 2001541-16**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:43	
<b>Arsenic</b>	<b>1.9</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
<b>Barium</b>	<b>78</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
<b>Chromium</b>	<b>15</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
<b>Cobalt</b>	<b>5.3</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
<b>Copper</b>	<b>15</b>	2.0	1	B0G0020	07/01/2020	07/02/20 12:43	
<b>Lead</b>	<b>18</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
Molybdenum	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
<b>Nickel</b>	<b>20</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
<b>Vanadium</b>	<b>27</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	
<b>Zinc</b>	<b>41</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:43	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:48	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0092	07/07/2020	07/07/20 11:37	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>74.2 %</i>	<i>45 - 149</i>		B0G0092	07/07/2020	07/07/20 11:37	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	100	100	B0F0661	06/30/2020	07/02/20 09:17	
<b>C13-C40 Total</b>	<b>7200</b>	100	100	B0F0661	06/30/2020	07/02/20 09:17	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-3-2.5**

**Lab ID: 2001541-16**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	100	100	B0F0661	06/30/2020	07/02/20 09:17	
C17-C18	ND	100	100	B0F0661	06/30/2020	07/02/20 09:17	
C19-C20	ND	100	100	B0F0661	06/30/2020	07/02/20 09:17	
C21-C22	ND	100	100	B0F0661	06/30/2020	07/02/20 09:17	
C23-C24	ND	100	100	B0F0661	06/30/2020	07/02/20 09:17	
<b>C25-C26</b>	<b>190</b>	100	100	B0F0661	06/30/2020	07/02/20 09:17	
<b>C27-C28</b>	<b>270</b>	100	100	B0F0661	06/30/2020	07/02/20 09:17	
<b>C29-C32</b>	<b>1200</b>	100	100	B0F0661	06/30/2020	07/02/20 09:17	
<b>C33-C36</b>	<b>1900</b>	100	100	B0F0661	06/30/2020	07/02/20 09:17	
<b>C37-C40</b>	<b>3400</b>	100	100	B0F0661	06/30/2020	07/02/20 09:17	
<i>Surrogate: p-Terphenyl</i>	<i>85.0 %</i>	<i>15 - 110</i>		B0F0661	06/30/2020	07/02/20 09:17	

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,1,1-Trichloroethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,1,2,2-Tetrachloroethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,1,2-Trichloroethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,1-Dichloroethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,1-Dichloroethene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,1-Dichloropropene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,2,3-Trichloropropane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,2,3-Trichlorobenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,2,4-Trichlorobenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,2,4-Trimethylbenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,2-Dibromo-3-chloropropane	ND	12	1	B0F0640	06/30/2020	06/30/20 13:12	
1,2-Dibromoethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,2-Dichlorobenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,2-Dichloroethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,2-Dichloropropane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,3,5-Trimethylbenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,3-Dichlorobenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,3-Dichloropropane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
1,4-Dichlorobenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-3-2.5**

**Lab ID: 2001541-16**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
2-Chlorotoluene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
4-Chlorotoluene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
4-Isopropyltoluene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Benzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Bromobenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Bromochloromethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Bromodichloromethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Bromoform	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Bromomethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Carbon disulfide	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Carbon tetrachloride	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Chlorobenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Chloroethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Chloroform	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Chloromethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
cis-1,2-Dichloroethene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
cis-1,3-Dichloropropene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Di-isopropyl ether	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Dibromochloromethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Dibromomethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Dichlorodifluoromethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Ethyl Acetate	ND	58	1	B0F0640	06/30/2020	06/30/20 13:12	
Ethyl Ether	ND	58	1	B0F0640	06/30/2020	06/30/20 13:12	
Ethyl tert-butyl ether	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Ethylbenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Freon-113	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Hexachlorobutadiene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Isopropylbenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
m,p-Xylene	ND	12	1	B0F0640	06/30/2020	06/30/20 13:12	
Methylene chloride	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
MTBE	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
n-Butylbenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
n-Propylbenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Naphthalene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
o-Xylene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-3-2.5**

**Lab ID: 2001541-16**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Styrene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
tert-Amyl methyl ether	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
tert-Butanol	ND	120	1	B0F0640	06/30/2020	06/30/20 13:12	
tert-Butylbenzene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Tetrachloroethene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Toluene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
trans-1,2-Dichloroethene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
trans-1,3-Dichloropropene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Trichloroethene	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Trichlorofluoromethane	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
Vinyl acetate	ND	58	1	B0F0640	06/30/2020	06/30/20 13:12	
Vinyl chloride	ND	5.8	1	B0F0640	06/30/2020	06/30/20 13:12	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>134 %</i>	<i>58 - 160</i>		B0F0640	06/30/2020	<i>06/30/20 13:12</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>104 %</i>	<i>72 - 121</i>		B0F0640	06/30/2020	<i>06/30/20 13:12</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	<i>75 - 139</i>		B0F0640	06/30/2020	<i>06/30/20 13:12</i>	
<i>Surrogate: Toluene-d8</i>	<i>109 %</i>	<i>84 - 115</i>		B0F0640	06/30/2020	<i>06/30/20 13:12</i>	

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Acenaphthene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Acenaphthylene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Anthracene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Benzo(a)anthracene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Benzo(a)pyrene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Benzo(b)fluoranthene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Benzo(g,h,i)perylene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Benzo(k)fluoranthene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Chrysene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Dibenz(a,h)anthracene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Fluoranthene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Fluorene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Indeno(1,2,3-cd)pyrene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1



## Certificate of Analysis

Wood PLC

3560 Hyland Ave, Suite 100

Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-3-2.5**

**Lab ID: 2001541-16**

### Semivolatile Organic Compounds by EPA 8270/SIM

**Analyst: SP**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Naphthalene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Phenanthrene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
Pyrene	ND	25	5	B0G0164	07/09/2020	07/13/20 17:35	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>104 %</i>	<i>12 - 125</i>		B0G0164	07/09/2020	07/13/20 17:35	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>117 %</i>	<i>14 - 139</i>		B0G0164	07/09/2020	07/13/20 17:35	
<i>Surrogate: Nitrobenzene-d5</i>	<i>60.6 %</i>	<i>8 - 155</i>		B0G0164	07/09/2020	07/13/20 17:35	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>103 %</i>	<i>16 - 152</i>		B0G0164	07/09/2020	07/13/20 17:35	



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**Client Sample ID: ND-3-5.5**

**Lab ID: 2001541-17**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B0G0020	07/01/2020	07/02/20 12:45	
Arsenic	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
<b>Barium</b>	<b>83</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
Beryllium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
Cadmium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
<b>Chromium</b>	<b>16</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
<b>Cobalt</b>	<b>4.8</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
<b>Copper</b>	<b>14</b>	2.0	1	B0G0020	07/01/2020	07/02/20 12:45	
<b>Lead</b>	<b>23</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
Molybdenum	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
<b>Nickel</b>	<b>11</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
Selenium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
Silver	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
Thallium	ND	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
<b>Vanadium</b>	<b>28</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	
<b>Zinc</b>	<b>39</b>	1.0	1	B0G0020	07/01/2020	07/02/20 12:45	

## Mercury by AA (Cold Vapor) EPA 7471A

**Analyst: AH**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B0G0023	07/01/2020	07/02/20 14:56	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	1.0	1	B0G0092	07/07/2020	07/07/20 12:00	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>72.7 %</i>	<i>45 - 149</i>		B0G0092	07/07/2020	07/07/20 12:00	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
<b>C13-C40 Total</b>	<b>210</b>	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	



# Certificate of Analysis

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Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-3-5.5**

**Lab ID: 2001541-17**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
C17-C18	ND	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
<b>C19-C20</b>	<b>2.4</b>	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
<b>C21-C22</b>	<b>3.9</b>	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
<b>C23-C24</b>	<b>6.6</b>	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
<b>C25-C26</b>	<b>8.8</b>	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
<b>C27-C28</b>	<b>11</b>	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
<b>C29-C32</b>	<b>39</b>	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
<b>C33-C36</b>	<b>57</b>	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
<b>C37-C40</b>	<b>77</b>	2.0	2	B0F0661	06/30/2020	07/02/20 09:52	
<i>Surrogate: p-Terphenyl</i>	<i>126 %</i>	<i>15 - 110</i>		B0F0661	06/30/2020	07/02/20 09:52	S5

## Volatile Organic Compounds by EPA 5035 / EPA 8260B

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,1,1-Trichloroethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,1,2,2-Tetrachloroethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,1,2-Trichloroethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,1-Dichloroethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,1-Dichloroethene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,1-Dichloropropene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,2,3-Trichloropropane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,2,3-Trichlorobenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,2,4-Trichlorobenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,2,4-Trimethylbenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,2-Dibromo-3-chloropropane	ND	8.6	1	B0F0640	06/30/2020	06/30/20 13:33	
1,2-Dibromoethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,2-Dichlorobenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,2-Dichloroethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,2-Dichloropropane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,3,5-Trimethylbenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,3-Dichlorobenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,3-Dichloropropane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
1,4-Dichlorobenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-3-5.5**

**Lab ID: 2001541-17**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,2-Dichloropropane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
2-Chlorotoluene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
4-Chlorotoluene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
4-Isopropyltoluene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Benzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Bromobenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Bromochloromethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Bromodichloromethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Bromoform	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Bromomethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Carbon disulfide	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Carbon tetrachloride	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Chlorobenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Chloroethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Chloroform	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Chloromethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
cis-1,2-Dichloroethene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
cis-1,3-Dichloropropene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Di-isopropyl ether	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Dibromochloromethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Dibromomethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Dichlorodifluoromethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Ethyl Acetate	ND	43	1	B0F0640	06/30/2020	06/30/20 13:33	
Ethyl Ether	ND	43	1	B0F0640	06/30/2020	06/30/20 13:33	
Ethyl tert-butyl ether	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Ethylbenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Freon-113	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Hexachlorobutadiene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Isopropylbenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
m,p-Xylene	ND	8.6	1	B0F0640	06/30/2020	06/30/20 13:33	
Methylene chloride	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
MTBE	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
n-Butylbenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
n-Propylbenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Naphthalene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
o-Xylene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-3-5.5**

**Lab ID: 2001541-17**

### Volatile Organic Compounds by EPA 5035 / EPA 8260B

**Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
sec-Butylbenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Styrene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
tert-Amyl methyl ether	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
tert-Butanol	ND	86	1	B0F0640	06/30/2020	06/30/20 13:33	
tert-Butylbenzene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Tetrachloroethene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Toluene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
trans-1,2-Dichloroethene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
trans-1,3-Dichloropropene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Trichloroethene	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Trichlorofluoromethane	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
Vinyl acetate	ND	43	1	B0F0640	06/30/2020	06/30/20 13:33	
Vinyl chloride	ND	4.3	1	B0F0640	06/30/2020	06/30/20 13:33	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>141 %</i>	<i>58 - 160</i>		B0F0640	06/30/2020	<i>06/30/20 13:33</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>104 %</i>	<i>72 - 121</i>		B0F0640	06/30/2020	<i>06/30/20 13:33</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>118 %</i>	<i>75 - 139</i>		B0F0640	06/30/2020	<i>06/30/20 13:33</i>	
<i>Surrogate: Toluene-d8</i>	<i>112 %</i>	<i>84 - 115</i>		B0F0640	06/30/2020	<i>06/30/20 13:33</i>	



# Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

**Client Sample ID: ND-3-16**  
**Lab ID: 2001541-18**

## Title 22 Metals by ICP-AES EPA 6010B

Analyst: TA

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.010	1	B0G0016	07/01/2020	07/02/20 11:56	
Arsenic	0.052	0.010	1	B0G0016	07/01/2020	07/02/20 11:56	
Barium	3.2	0.0030	1	B0G0016	07/01/2020	07/02/20 11:56	
Beryllium	0.019	0.0030	1	B0G0016	07/01/2020	07/02/20 11:56	
Cadmium	ND	0.0030	1	B0G0016	07/01/2020	07/02/20 11:56	
Chromium	3.5	0.0030	1	B0G0016	07/01/2020	07/02/20 11:56	
Cobalt	0.25	0.0030	1	B0G0016	07/01/2020	07/02/20 11:56	
Copper	1.1	0.0090	1	B0G0016	07/01/2020	07/02/20 11:56	
Lead	0.49	0.0050	1	B0G0016	07/01/2020	07/02/20 11:56	
Molybdenum	0.50	0.0050	1	B0G0016	07/01/2020	07/02/20 11:56	
Nickel	0.91	0.0050	1	B0G0016	07/01/2020	07/02/20 11:56	
Selenium	ND	0.010	1	B0G0016	07/01/2020	07/02/20 11:56	
Silver	0.015	0.0030	1	B0G0016	07/01/2020	07/02/20 11:56	
Thallium	ND	0.015	1	B0G0016	07/01/2020	07/02/20 11:56	
Vanadium	1.5	0.0030	1	B0G0016	07/01/2020	07/02/20 11:56	
Zinc	1.7	0.025	1	B0G0016	07/01/2020	07/02/20 11:56	

## Mercury by AA (Cold Vapor) EPA 7470A

Analyst: AH

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	1.4	0.20	1	B0G0017	07/01/2020	07/02/20 14:15	

## Gasoline Range Organics by EPA 8015B (Modified)

Analyst: Kur

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	0.20	1	B0G0034	07/02/2020	07/02/20 11:25	P1
Surrogate: 4-Bromofluorobenzene	106 %	70 - 130		B0G0034	07/02/2020	07/02/20 11:25	P1

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
C13-C40 Total	0.25	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: ND-3-16**

**Lab ID: 2001541-18**

### Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
C17-C18	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
C19-C20	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
C21-C22	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
C23-C24	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
<b>C23-C40</b>	<b>0.15</b>	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
C25-C26	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
C27-C28	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
C29-C32	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
C33-C36	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
C37-C40	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:34	
<i>Surrogate: p-Terphenyl</i>	<i>60.3 %</i>	<i>32 - 169</i>		B0G0009	07/01/2020	07/02/20 17:34	

### Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,1,1-Trichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,1,2-Trichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,1-Dichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,1-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,1-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,2,3-Trichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,2,3-Trichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,2,4-Trichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,2,4-Trimethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,2-Dibromoethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,2-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,2-Dichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,2-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,3,5-Trimethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,3-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
1,3-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-3-16**

**Lab ID: 2001541-18**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
2,2-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
2-Chlorotoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
4-Chlorotoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
4-Isopropyltoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Benzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Bromobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Bromochloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Bromodichloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Bromoform	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Bromomethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Carbon disulfide	ND	1.0	1	B0F0638	06/30/2020	06/30/20 18:20	
Carbon tetrachloride	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Chlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Chloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Chloroform	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Chloromethane	ND	0.50	1	B0G0003	07/01/2020	07/01/20 15:53	
cis-1,2-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
cis-1,3-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Di-isopropyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Dibromochloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Dibromomethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Dichlorodifluoromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Ethyl Acetate	ND	10	1	B0F0638	06/30/2020	06/30/20 18:20	
Ethyl Ether	ND	10	1	B0F0638	06/30/2020	06/30/20 18:20	
Ethyl tert-butyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Ethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Freon-113	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Hexachlorobutadiene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Isopropylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
m,p-Xylene	ND	1.0	1	B0F0638	06/30/2020	06/30/20 18:20	
Methylene chloride	ND	1.0	1	B0F0638	06/30/2020	06/30/20 18:20	
<b>MTBE</b>	<b>1.1</b>	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
n-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
n-Propylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Naphthalene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: ND-3-16**

**Lab ID: 2001541-18**

### Volatile Organic Compounds by EPA 8260B

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
sec-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Styrene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
tert-Amyl methyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
<b>tert-Butanol</b>	<b>11</b>	10	1	B0F0638	06/30/2020	06/30/20 18:20	
tert-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Tetrachloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Toluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
trans-1,2-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
trans-1,3-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Trichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Trichlorofluoromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
Vinyl acetate	ND	10	1	B0F0638	06/30/2020	06/30/20 18:20	
Vinyl chloride	ND	0.50	1	B0F0638	06/30/2020	06/30/20 18:20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>116 %</i>	<i>59 - 158</i>		B0F0638	06/30/2020	<i>06/30/20 18:20</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>154 %</i>	<i>59 - 158</i>		B0G0003	07/01/2020	<i>07/01/20 15:53</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.4 %</i>	<i>71 - 127</i>		B0F0638	06/30/2020	<i>06/30/20 18:20</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>106 %</i>	<i>71 - 127</i>		B0G0003	07/01/2020	<i>07/01/20 15:53</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	<i>66 - 147</i>		B0F0638	06/30/2020	<i>06/30/20 18:20</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>121 %</i>	<i>66 - 147</i>		B0G0003	07/01/2020	<i>07/01/20 15:53</i>	
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>	<i>77 - 138</i>		B0F0638	06/30/2020	<i>06/30/20 18:20</i>	
<i>Surrogate: Toluene-d8</i>	<i>114 %</i>	<i>77 - 138</i>		B0G0003	07/01/2020	<i>07/01/20 15:53</i>	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: QCEB-ND**  
**Lab ID: 2001541-19**

## Title 22 Metals by ICP-AES EPA 6010B

**Analyst: TA**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.010	1	B0G0016	07/01/2020	07/02/20 11:58	
Arsenic	ND	0.010	1	B0G0016	07/01/2020	07/02/20 11:58	
Barium	ND	0.0030	1	B0G0016	07/01/2020	07/02/20 11:58	
Beryllium	ND	0.0030	1	B0G0016	07/01/2020	07/02/20 11:58	
Cadmium	ND	0.0030	1	B0G0016	07/01/2020	07/02/20 11:58	
Chromium	ND	0.0030	1	B0G0016	07/01/2020	07/02/20 11:58	
Cobalt	ND	0.0030	1	B0G0016	07/01/2020	07/02/20 11:58	
Copper	ND	0.0090	1	B0G0016	07/01/2020	07/02/20 11:58	
Lead	ND	0.0050	1	B0G0016	07/01/2020	07/02/20 11:58	
Molybdenum	ND	0.0050	1	B0G0016	07/01/2020	07/02/20 11:58	
Nickel	ND	0.0050	1	B0G0016	07/01/2020	07/02/20 11:58	
Selenium	ND	0.010	1	B0G0016	07/01/2020	07/02/20 11:58	
Silver	ND	0.0030	1	B0G0016	07/01/2020	07/02/20 11:58	
Thallium	ND	0.015	1	B0G0016	07/01/2020	07/02/20 11:58	
Vanadium	ND	0.0030	1	B0G0016	07/01/2020	07/02/20 11:58	
Zinc	ND	0.025	1	B0G0016	07/01/2020	07/02/20 11:58	

## Mercury by AA (Cold Vapor) EPA 7470A

**Analyst: AH**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.20	1	B0G0017	07/01/2020	07/02/20 14:17	

## Gasoline Range Organics by EPA 8015B (Modified)

**Analyst: Kur**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C4-C12	ND	0.20	1	B0G0034	07/02/2020	07/02/20 10:58	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>	<i>70 - 130</i>		B0G0034	07/02/2020	07/02/20 10:58	

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

**Analyst: VL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C13-C14	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
<b>C13-C40 Total</b>	<b>0.11</b>	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	



# Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

**Client Sample ID: QCEB-ND**

**Lab ID: 2001541-19**

## Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: VL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
C15-C16	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
C17-C18	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
C19-C20	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
C21-C22	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
C23-C24	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
<b>C23-C40</b>	<b>0.08</b>	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
C25-C26	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
C27-C28	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
C29-C32	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
C33-C36	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
C37-C40	ND	0.05	1	B0G0009	07/01/2020	07/02/20 17:50	
<i>Surrogate: p-Terphenyl</i>	<i>89.1 %</i>	<i>32 - 169</i>		B0G0009	07/01/2020	07/02/20 17:50	

## Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,1,1-Trichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,1,2-Trichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,1-Dichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,1-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,1-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,2,3-Trichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,2,3-Trichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,2,4-Trichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,2,4-Trimethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,2-Dibromoethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,2-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,2-Dichloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,2-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,3,5-Trimethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,3-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
1,3-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

**Client Sample ID: QCEB-ND**  
**Lab ID: 2001541-19**

### Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dichlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
2,2-Dichloropropane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
2-Chlorotoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
4-Chlorotoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
4-Isopropyltoluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Benzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Bromobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Bromochloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Bromodichloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Bromoform	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Bromomethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Carbon disulfide	ND	1.0	1	B0F0638	06/30/2020	06/30/20 15:54	
Carbon tetrachloride	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Chlorobenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Chloroethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Chloroform	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Chloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
cis-1,2-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
cis-1,3-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Di-isopropyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Dibromochloromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Dibromomethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Dichlorodifluoromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Ethyl Acetate	ND	10	1	B0F0638	06/30/2020	06/30/20 15:54	
Ethyl Ether	ND	10	1	B0F0638	06/30/2020	06/30/20 15:54	
Ethyl tert-butyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Ethylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Freon-113	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Hexachlorobutadiene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Isopropylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
m,p-Xylene	ND	1.0	1	B0F0638	06/30/2020	06/30/20 15:54	
Methylene chloride	ND	1.0	1	B0F0638	06/30/2020	06/30/20 15:54	
MTBE	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
n-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
n-Propylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Naphthalene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	





## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

**Client Sample ID: QCEB-ND**  
**Lab ID: 2001541-19**

**Volatile Organic Compounds by EPA 8260B**

**Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
o-Xylene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
sec-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Styrene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
tert-Amyl methyl ether	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
tert-Butanol	ND	10	1	B0F0638	06/30/2020	06/30/20 15:54	
tert-Butylbenzene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Tetrachloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Toluene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
trans-1,2-Dichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
trans-1,3-Dichloropropene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Trichloroethene	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Trichlorofluoromethane	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
Vinyl acetate	ND	10	1	B0F0638	06/30/2020	06/30/20 15:54	
Vinyl chloride	ND	0.50	1	B0F0638	06/30/2020	06/30/20 15:54	
<hr/>							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>118 %</i>	<i>59 - 158</i>		B0F0638	06/30/2020	<i>06/30/20 15:54</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.3 %</i>	<i>71 - 127</i>		B0F0638	06/30/2020	<i>06/30/20 15:54</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>112 %</i>	<i>66 - 147</i>		B0F0638	06/30/2020	<i>06/30/20 15:54</i>	
<i>Surrogate: Toluene-d8</i>	<i>99.9 %</i>	<i>77 - 138</i>		B0F0638	06/30/2020	<i>06/30/20 15:54</i>	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

### QUALITY CONTROL SECTION

#### Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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#### Batch B0G0016 - EPA 3010A\_W

##### Blank (B0G0016-BLK1)

Prepared: 7/1/2020 Analyzed: 7/2/2020

Antimony	ND	0.010	0.0088
Arsenic	ND	0.010	0.0078
Barium	ND	0.0030	0.0026
Beryllium	ND	0.0030	0.0016
Cadmium	ND	0.0030	0.0024
Chromium	ND	0.0030	0.0020
Cobalt	ND	0.0030	0.0016
Copper	ND	0.0090	0.0038
Lead	ND	0.0050	0.0047
Molybdenum	ND	0.0050	0.0030
Nickel	ND	0.0050	0.0046
Selenium	ND	0.010	0.0093
Silver	ND	0.0030	0.0024
Thallium	ND	0.015	0.0085
Vanadium	ND	0.0030	0.0022
Zinc	ND	0.025	0.0057

##### LCS (B0G0016-BS1)

Prepared: 7/1/2020 Analyzed: 7/2/2020

Antimony	0.473866	0.010	0.0088	0.500000	94.8	80 - 120
Arsenic	0.454109	0.010	0.0078	0.500000	90.8	80 - 120
Barium	0.509731	0.0030	0.0026	0.500000	102	80 - 120
Beryllium	0.473816	0.0030	0.0016	0.500000	94.8	80 - 120
Cadmium	0.471706	0.0030	0.0024	0.500000	94.3	80 - 120
Chromium	0.471595	0.0030	0.0020	0.500000	94.3	80 - 120
Cobalt	0.504761	0.0030	0.0016	0.500000	101	80 - 120
Copper	0.528370	0.0090	0.0038	0.500000	106	80 - 120
Lead	0.455657	0.0050	0.0047	0.500000	91.1	80 - 120
Molybdenum	0.466693	0.0050	0.0030	0.500000	93.3	80 - 120
Nickel	0.465804	0.0050	0.0046	0.500000	93.2	80 - 120
Selenium	0.475922	0.010	0.0093	0.500000	95.2	80 - 120
Silver	0.231949	0.0030	0.0024	0.250000	92.8	80 - 120
Thallium	0.478942	0.015	0.0085	0.500000	95.8	80 - 120
Vanadium	0.460261	0.0030	0.0022	0.500000	92.1	80 - 120
Zinc	0.470720	0.025	0.0057	0.500000	94.1	80 - 120

##### Duplicate (B0G0016-DUP1)

Source: 2001542-11

Prepared: 7/1/2020 Analyzed: 7/2/2020

Antimony	ND	0.010	0.0088	ND	NR	20
Arsenic	ND	0.010	0.0078	ND	NR	20



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

### Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0G0016 - EPA 3010A\_W (continued)**

**Duplicate (B0G0016-DUP1) - Continued**

**Source: 2001542-11**

Prepared: 7/1/2020 Analyzed: 7/2/2020

Barium	ND	0.0030	0.0026		ND			NR	20	
Beryllium	ND	0.0030	0.0016		ND			NR	20	
Cadmium	ND	0.0030	0.0024		ND			NR	20	
Chromium	0.009266	0.0030	0.0020		9.1544E-3			1.22	20	
Cobalt	ND	0.0030	0.0016		ND			NR	20	
Copper	ND	0.0090	0.0038		ND			NR	20	
Lead	ND	0.0050	0.0047		ND			NR	20	
Molybdenum	ND	0.0050	0.0030		ND			NR	20	
Nickel	ND	0.0050	0.0046		ND			NR	20	
Selenium	ND	0.010	0.0093		ND			NR	20	
Silver	ND	0.0030	0.0024		ND			NR	20	
Thallium	ND	0.015	0.0085		ND			NR	20	
Vanadium	ND	0.0030	0.0022		ND			NR	20	
Zinc	ND	0.025	0.0057		ND			NR	20	

**Matrix Spike (B0G0016-MS1)**

**Source: 2001542-11**

Prepared: 7/1/2020 Analyzed: 7/2/2020

Antimony	0.451878	0.010	0.0088	0.500000	ND	90.4	58 - 139			
Arsenic	0.471524	0.010	0.0078	0.500000	ND	94.3	67 - 136			
Barium	0.498619	0.0030	0.0026	0.500000	ND	99.7	68 - 130			
Beryllium	0.456333	0.0030	0.0016	0.500000	ND	91.3	70 - 133			
Cadmium	0.451599	0.0030	0.0024	0.500000	ND	90.3	68 - 136			
Chromium	0.453147	0.0030	0.0020	0.500000	9.1544E-3	88.8	69 - 135			
Cobalt	0.490615	0.0030	0.0016	0.500000	ND	98.1	69 - 138			
Copper	0.507506	0.0090	0.0038	0.500000	ND	102	60 - 146			
Lead	0.452794	0.0050	0.0047	0.500000	ND	90.6	58 - 146			
Molybdenum	0.452954	0.0050	0.0030	0.500000	ND	90.6	68 - 132			
Nickel	0.451969	0.0050	0.0046	0.500000	ND	90.4	64 - 135			
Selenium	0.443548	0.010	0.0093	0.500000	ND	88.7	57 - 146			
Silver	0.223156	0.0030	0.0024	0.250000	ND	89.3	47 - 151			
Thallium	0.464236	0.015	0.0085	0.500000	ND	92.8	59 - 133			
Vanadium	0.439322	0.0030	0.0022	0.500000	ND	87.9	70 - 127			
Zinc	0.454294	0.025	0.0057	0.500000	ND	90.9	53 - 144			

**Matrix Spike Dup (B0G0016-MSD1)**

**Source: 2001542-11**

Prepared: 7/1/2020 Analyzed: 7/2/2020

Antimony	0.449479	0.010	0.0088	0.500000	ND	89.9	58 - 139	0.532	20	
Arsenic	0.431922	0.010	0.0078	0.500000	ND	86.4	67 - 136	8.77	20	
Barium	0.494693	0.0030	0.0026	0.500000	ND	98.9	68 - 130	0.791	20	
Beryllium	0.435089	0.0030	0.0016	0.500000	ND	87.0	70 - 133	4.77	20	
Cadmium	0.447157	0.0030	0.0024	0.500000	ND	89.4	68 - 136	0.989	20	
Chromium	0.449291	0.0030	0.0020	0.500000	9.1544E-3	88.0	69 - 135	0.855	20	
Cobalt	0.488717	0.0030	0.0016	0.500000	ND	97.7	69 - 138	0.388	20	



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

### Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Batch B0G0016 - EPA 3010A\_W (continued)**

**Matrix Spike Dup (B0G0016-MSD1) - Continued**

**Source: 2001542-11**

Prepared: 7/1/2020 Analyzed: 7/2/2020

Copper	0.510406	0.0090	0.0038	0.500000	ND	102	60 - 146	0.570	20	
Lead	0.446978	0.0050	0.0047	0.500000	ND	89.4	58 - 146	1.29	20	
Molybdenum	0.453203	0.0050	0.0030	0.500000	ND	90.6	68 - 132	0.0548	20	
Nickel	0.448977	0.0050	0.0046	0.500000	ND	89.8	64 - 135	0.664	20	
Selenium	0.442646	0.010	0.0093	0.500000	ND	88.5	57 - 146	0.204	20	
Silver	0.220903	0.0030	0.0024	0.250000	ND	88.4	47 - 151	1.01	20	
Thallium	0.457668	0.015	0.0085	0.500000	ND	91.5	59 - 133	1.42	20	
Vanadium	0.436704	0.0030	0.0022	0.500000	ND	87.3	70 - 127	0.598	20	
Zinc	0.448682	0.025	0.0057	0.500000	ND	89.7	53 - 144	1.24	20	



## Certificate of Analysis

Wood PLC  
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Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

### Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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#### Batch B0G0020 - EPA 3050B\_S

##### Blank (B0G0020-BLK1)

Prepared: 7/1/2020 Analyzed: 7/2/2020

Antimony	ND	2.0	0.51
Arsenic	ND	1.0	0.12
Barium	ND	1.0	0.12
Beryllium	ND	1.0	0.03
Cadmium	ND	1.0	0.14
Chromium	ND	1.0	0.26
Cobalt	ND	1.0	0.07
Copper	ND	2.0	0.19
Lead	ND	1.0	0.18
Molybdenum	ND	1.0	0.12
Nickel	ND	1.0	0.18
Selenium	ND	1.0	0.40
Silver	ND	1.0	0.12
Thallium	ND	1.0	0.38
Vanadium	ND	1.0	0.06
Zinc	ND	1.0	0.15

##### LCS (B0G0020-BS1)

Prepared: 7/1/2020 Analyzed: 7/2/2020

Antimony	23.0442	2.0	0.51	25.0000	92.2	80 - 120
Arsenic	21.6477	1.0	0.12	25.0000	86.6	80 - 120
Barium	25.2961	1.0	0.12	25.0000	101	80 - 120
Beryllium	22.7365	1.0	0.03	25.0000	90.9	80 - 120
Cadmium	22.5578	1.0	0.14	25.0000	90.2	80 - 120
Chromium	23.7285	1.0	0.26	25.0000	94.9	80 - 120
Cobalt	24.8922	1.0	0.07	25.0000	99.6	80 - 120
Copper	27.4430	2.0	0.19	25.0000	110	80 - 120
Lead	22.4533	1.0	0.18	25.0000	89.8	80 - 120
Molybdenum	23.5272	1.0	0.12	25.0000	94.1	80 - 120
Nickel	22.7038	1.0	0.18	25.0000	90.8	80 - 120
Selenium	22.3252	1.0	0.40	25.0000	89.3	80 - 120
Silver	11.5656	1.0	0.12	12.5000	92.5	80 - 120
Thallium	23.1911	1.0	0.38	25.0000	92.8	80 - 120
Vanadium	23.4366	1.0	0.06	25.0000	93.7	80 - 120
Zinc	22.4094	1.0	0.15	25.0000	89.6	80 - 120

##### Matrix Spike (B0G0020-MS1)

Source: 2001541-02

Prepared: 7/1/2020 Analyzed: 7/2/2020

Antimony	13.1700	2.0	0.51	25.0000	ND	52.7	0 - 102
Arsenic	22.5312	1.0	0.12	25.0000	3.11545	77.7	55 - 117
Barium	84.2134	1.0	0.12	25.0000	61.0031	92.8	11 - 177
Beryllium	22.5178	1.0	0.03	25.0000	0.379142	88.6	64 - 115
Cadmium	22.2877	1.0	0.14	25.0000	0.329474	87.8	62 - 116



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

### Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0G0020 - EPA 3050B\_S (continued)**

**Matrix Spike (B0G0020-MS1) - Continued**

**Source: 2001541-02**

Prepared: 7/1/2020 Analyzed: 7/2/2020

Chromium	36.9331	1.0	0.26	25.0000	13.9425	92.0	42 - 145		
Cobalt	27.8254	1.0	0.07	25.0000	4.07486	95.0	60 - 126		
Copper	38.7014	2.0	0.19	25.0000	11.0630	111	37 - 163		
Lead	33.7297	1.0	0.18	25.0000	11.5542	88.7	26 - 161		
Molybdenum	23.4749	1.0	0.12	25.0000	0.792558	90.7	31 - 122		
Nickel	31.6895	1.0	0.18	25.0000	9.56188	88.5	52 - 130		
Selenium	16.5179	1.0	0.40	25.0000	ND	66.1	25 - 129		
Silver	11.9840	1.0	0.12	12.5000	0.344894	93.1	48 - 133		
Thallium	19.6993	1.0	0.38	25.0000	ND	78.8	25 - 119		
Vanadium	50.7541	1.0	0.06	25.0000	27.5097	93.0	51 - 141		
Zinc	62.5068	1.0	0.15	25.0000	40.6869	87.3	8 - 170		

**Matrix Spike Dup (B0G0020-MSD1)**

**Source: 2001541-02**

Prepared: 7/1/2020 Analyzed: 7/2/2020

Antimony	13.2717	2.0	0.51	25.0000	ND	53.1	0 - 102	0.770	20
Arsenic	24.3269	1.0	0.12	25.0000	3.11545	84.8	55 - 117	7.66	20
Barium	84.2930	1.0	0.12	25.0000	61.0031	93.2	11 - 177	0.0944	20
Beryllium	22.7911	1.0	0.03	25.0000	0.379142	89.6	64 - 115	1.21	20
Cadmium	22.6028	1.0	0.14	25.0000	0.329474	89.1	62 - 116	1.40	20
Chromium	37.0382	1.0	0.26	25.0000	13.9425	92.4	42 - 145	0.284	20
Cobalt	28.4415	1.0	0.07	25.0000	4.07486	97.5	60 - 126	2.19	20
Copper	39.1165	2.0	0.19	25.0000	11.0630	112	37 - 163	1.07	20
Lead	33.6176	1.0	0.18	25.0000	11.5542	88.3	26 - 161	0.333	20
Molybdenum	24.0903	1.0	0.12	25.0000	0.792558	93.2	31 - 122	2.59	20
Nickel	32.2068	1.0	0.18	25.0000	9.56188	90.6	52 - 130	1.62	20
Selenium	16.9905	1.0	0.40	25.0000	ND	68.0	25 - 129	2.82	20
Silver	12.0764	1.0	0.12	12.5000	0.344894	93.9	48 - 133	0.768	20
Thallium	21.3562	1.0	0.38	25.0000	ND	85.4	25 - 119	8.07	20
Vanadium	51.0397	1.0	0.06	25.0000	27.5097	94.1	51 - 141	0.561	20
Zinc	63.7018	1.0	0.15	25.0000	40.6869	92.1	8 - 170	1.89	20



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

### Mercury by AA (Cold Vapor) EPA 7470A - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0G0017 - EPA 245.1/7470_W</b>										
<b>Blank (B0G0017-BLK1)</b>					Prepared: 7/1/2020 Analyzed: 7/2/2020					
Mercury	ND	0.20	0.05							
<b>LCS (B0G0017-BS1)</b>					Prepared: 7/1/2020 Analyzed: 7/2/2020					
Mercury	8.11318	0.20	0.05	10.0000		81.1	80 - 120			
<b>Duplicate (B0G0017-DUP1)</b>					<b>Source: 2001542-11</b> Prepared: 7/1/2020 Analyzed: 7/2/2020					
Mercury	0.051300	0.20	0.05		0.054930			6.83	20	
<b>Matrix Spike (B0G0017-MS1)</b>					<b>Source: 2001542-11</b> Prepared: 7/1/2020 Analyzed: 7/2/2020					
Mercury	8.13796	0.20	0.05	10.0000	0.054930	80.8	70 - 130			
<b>Matrix Spike Dup (B0G0017-MSD1)</b>					<b>Source: 2001542-11</b> Prepared: 7/1/2020 Analyzed: 7/2/2020					
Mercury	8.48228	0.20	0.05	10.0000	0.054930	84.3	70 - 130	4.14	20	
<b>Post Spike (B0G0017-PS1)</b>					<b>Source: 2001542-11</b> Prepared: 7/1/2020 Analyzed: 7/2/2020					
Mercury	4.94064			5.00000	0.054930	97.7	85 - 115			



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

### Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0G0023 - EPA 7471_S</b>										
<b>Blank (B0G0023-BLK1)</b>					Prepared: 7/1/2020 Analyzed: 7/2/2020					
Mercury	ND	0.10	0.01							
<b>LCS (B0G0023-BS1)</b>					Prepared: 7/1/2020 Analyzed: 7/2/2020					
Mercury	0.419246	0.10	0.01	0.416667		101	80 - 120			
<b>Matrix Spike (B0G0023-MS1)</b>					Prepared: 7/1/2020 Analyzed: 7/2/2020					
					<b>Source: 2001541-02</b>					
Mercury	0.495848	0.10	0.01	0.416667	0.030333	112	70 - 130			
<b>Matrix Spike Dup (B0G0023-MSD1)</b>					Prepared: 7/1/2020 Analyzed: 7/2/2020					
					<b>Source: 2001541-02</b>					
Mercury	0.548817	0.10	0.01	0.416667	0.030333	124	70 - 130	10.1	20	





## Certificate of Analysis

Wood PLC  
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Project Number : New Dock, CM20167740  
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Reported : 07/15/2020

### Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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#### Batch B0G0023 - EPA 7471\_S

##### Post Spike (B0G0023-PS1)

Source: 2001541-02

Prepared: 7/1/2020 Analyzed: 7/2/2020

Mercury	0.003048		2.50000E-3	0.000364	107	85 - 115			
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## Certificate of Analysis

Wood PLC  
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Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

### Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0G0034 - GCVOA_W</b>										
<b>Blank (B0G0034-BLK1)</b>										
					Prepared: 7/2/2020 Analyzed: 7/2/2020					
C4-C12	ND	0.20	0.05							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.4084</i>			<i>0.400000</i>		<i>102</i>	<i>70 - 130</i>			
<b>LCS (B0G0034-BS1)</b>										
					Prepared: 7/2/2020 Analyzed: 7/2/2020					
Gasoline Range Organics	0.896000	0.20	0.05	1.00000		89.6	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.4018</i>			<i>0.400000</i>		<i>100</i>	<i>70 - 130</i>			
<b>LCS Dup (B0G0034-BSD1)</b>										
					Prepared: 7/2/2020 Analyzed: 7/2/2020					
Gasoline Range Organics	0.936000	0.20	0.05	1.00000		93.6	70 - 130	4.37	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.4061</i>			<i>0.400000</i>		<i>102</i>	<i>70 - 130</i>			



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Project Number : New Dock, CM20167740  
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 Reported : 07/15/2020

### Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0G0091 - GCVOA_S</b>										
<b>Blank (B0G0091-BLK1)</b>					Prepared: 7/6/2020 Analyzed: 7/6/2020					
C4-C12	ND	1.0	0.20							
<i>Surrogate: 4-Bromofluorobenzene</i>	0.8636			0.800000		108	45 - 149			
<b>LCS (B0G0091-BS1)</b>					Prepared: 7/6/2020 Analyzed: 7/6/2020					
Gasoline Range Organics	5.08500	1.0	0.20	5.00000		102	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.3961			0.400000		99.0	45 - 149			
<b>Duplicate (B0G0091-DUP1)</b>					<b>Source: 2001542-15</b>		Prepared: 7/6/2020 Analyzed: 7/6/2020			
Gasoline Range Organics	ND	1.0	0.20		ND			NR	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.2874			0.400000		71.8	45 - 149			
<b>Matrix Spike (B0G0091-MS1)</b>					<b>Source: 2001542-12</b>		Prepared: 7/6/2020 Analyzed: 7/6/2020			
Gasoline Range Organics	3.73600	1.0	0.20	5.00000	ND	74.7	24 - 129			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.3792			0.400000		94.8	45 - 149			
<b>Matrix Spike Dup (B0G0091-MSD1)</b>					<b>Source: 2001542-12</b>		Prepared: 7/6/2020 Analyzed: 7/6/2020			
Gasoline Range Organics	3.15600	1.0	0.20	5.00000	ND	63.1	24 - 129	16.8	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.3578			0.400000		89.4	45 - 149			



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Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

### Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0G0092 - GCVOA_S</b>										
<b>Blank (B0G0092-BLK1)</b>					Prepared: 7/7/2020 Analyzed: 7/7/2020					
C4-C12	ND	1.0	0.20							
<i>Surrogate: 4-Bromofluorobenzene</i>	0.8606			0.800000		108	45 - 149			
<b>LCS (B0G0092-BS1)</b>					Prepared: 7/7/2020 Analyzed: 7/7/2020					
Gasoline Range Organics	5.63200	1.0	0.20	5.00000		113	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.4198			0.400000		105	45 - 149			
<b>Duplicate (B0G0092-DUP1)</b>					<b>Source: 2001549-02</b>		Prepared: 7/7/2020 Analyzed: 7/7/2020			
Gasoline Range Organics	ND	1.0	0.20		ND			NR	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.2797			0.400000		69.9	45 - 149			
<b>Matrix Spike (B0G0092-MS1)</b>					<b>Source: 2001541-14</b>		Prepared: 7/7/2020 Analyzed: 7/7/2020			
Gasoline Range Organics	3.93400	1.0	0.20	5.00000	ND	78.7	24 - 129			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.3903			0.400000		97.6	45 - 149			
<b>Matrix Spike Dup (B0G0092-MSD1)</b>					<b>Source: 2001541-14</b>		Prepared: 7/7/2020 Analyzed: 7/7/2020			
Gasoline Range Organics	3.70600	1.0	0.20	5.00000	ND	74.1	24 - 129	5.97	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.3830			0.400000		95.7	45 - 149			



## Certificate of Analysis

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Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

### Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0660 - GCSEMI\_DRO\_LL\_S**

**Blank (B0F0660-BLK1)**

Prepared: 6/30/2020 Analyzed: 7/1/2020

C13-C14	ND	1.0	1.0						
C13-C40 Total	ND	1.0	1.0						
C15-C16	ND	1.0	1.0						
C17-C18	ND	1.0	1.0						
C19-C20	ND	1.0	1.0						
C21-C22	ND	1.0	1.0						
C23-C24	ND	1.0	1.0						
C25-C26	ND	1.0	1.0						
C27-C28	ND	1.0	1.0						
C29-C32	ND	1.0	1.0						
C33-C36	ND	1.0	1.0						
C37-C40	ND	1.0	1.0						

*Surrogate: p-Terphenyl*      2.461      2.66667      92.3      15 - 110

**LCS (B0F0660-BS1)**

Prepared: 6/30/2020 Analyzed: 7/1/2020

DRO      27.0007      1.0      1.0      33.3333

81.0      30 - 116

*Surrogate: p-Terphenyl*      2.491      2.66667      93.4      15 - 110

**Duplicate (B0F0660-DUP1)**

**Source: 2001542-01**

Prepared: 6/30/2020 Analyzed: 7/2/2020

DRO      122.477      10      10      123.100

0.508      20

*Surrogate: p-Terphenyl*      1.387      2.66667      52.0      15 - 110

**Matrix Spike (B0F0660-MS1)**

**Source: 2001542-01**

Prepared: 6/30/2020 Analyzed: 7/2/2020

DRO      199.640      20      20      33.3333      123.100      230

0 - 120      M2

*Surrogate: p-Terphenyl*      1.760      2.66667      66.0      15 - 110

**Matrix Spike Dup (B0F0660-MSD1)**

**Source: 2001542-01**

Prepared: 6/30/2020 Analyzed: 7/2/2020

DRO      185.773      20      20      33.3333      123.100      188

0 - 120      7.20      20      M2

*Surrogate: p-Terphenyl*      1.747      2.66667      65.5      15 - 110



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

### Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes	
<b>Batch B0F0661 - GCSEMI_DRO_LL_S</b>											
<b>Blank (B0F0661-BLK1)</b>					Prepared: 6/30/2020 Analyzed: 7/1/2020						
C13-C14	ND	1.0	1.0								
C13-C40 Total	ND	1.0	1.0								
C15-C16	ND	1.0	1.0								
C17-C18	ND	1.0	1.0								
C19-C20	ND	1.0	1.0								
C21-C22	ND	1.0	1.0								
C23-C24	ND	1.0	1.0								
C25-C26	ND	1.0	1.0								
C27-C28	ND	1.0	1.0								
C29-C32	ND	1.0	1.0								
C33-C36	ND	1.0	1.0								
C37-C40	ND	1.0	1.0								
<i>Surrogate: p-Terphenyl</i>	2.562			2.66667		96.1	15 - 110				
<b>LCS (B0F0661-BS1)</b>					Prepared: 6/30/2020 Analyzed: 7/1/2020						
DRO	25.5553	1.0	1.0	33.3333		76.7	30 - 116				
<i>Surrogate: p-Terphenyl</i>	2.584			2.66667		96.9	15 - 110				
<b>Duplicate (B0F0661-DUP1)</b>					<b>Source: 2001542-12</b>			Prepared: 6/30/2020 Analyzed: 7/2/2020			
DRO	201.887	20	20		184.980			8.74	20		
<i>Surrogate: p-Terphenyl</i>	1.747			2.66667		65.5	15 - 110				
<b>Matrix Spike (B0F0661-MS1)</b>					<b>Source: 2001542-12</b>			Prepared: 6/30/2020 Analyzed: 7/2/2020			
DRO	208.893	20	20	33.3333	184.980	71.7	0 - 120				
<i>Surrogate: p-Terphenyl</i>	1.853			2.66667		69.5	15 - 110				
<b>Matrix Spike Dup (B0F0661-MSD1)</b>					<b>Source: 2001542-12</b>			Prepared: 6/30/2020 Analyzed: 7/2/2020			
DRO	200.147	20	20	33.3333	184.980	45.5	0 - 120	4.28	20		
<i>Surrogate: p-Terphenyl</i>	1.900			2.66667		71.2	15 - 110				



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock, CM20167740  
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 Reported : 07/15/2020

### Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Batch B0G0009 - GCSEMI\_DRO\_W**

**Blank (B0G0009-BLK1)**

Prepared: 7/1/2020 Analyzed: 7/2/2020

C13-C14	ND	0.05	0.05						
C13-C40 Total	ND	0.05	0.05						
C15-C16	ND	0.05	0.05						
C17-C18	ND	0.05	0.05						
C19-C20	ND	0.05	0.05						
C21-C22	ND	0.05	0.05						
C23-C24	ND	0.05	0.05						
C23-C40	ND	0.05	0.05						
C25-C26	ND	0.05	0.05						
C27-C28	ND	0.05	0.05						
C29-C32	ND	0.05	0.05						
C33-C36	ND	0.05	0.05						
C37-C40	ND	0.05	0.05						

<i>Surrogate: p-Terphenyl</i>	0.09389			8.00000E-2	117	32 - 169
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**LCS (B0G0009-BS1)**

Prepared: 7/1/2020 Analyzed: 7/2/2020

DRO	0.782710	0.05	0.05	1.00000	78.3	45 - 161
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<i>Surrogate: p-Terphenyl</i>	0.08457			8.00000E-2	106	32 - 169
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**LCS Dup (B0G0009-BSD1)**

Prepared: 7/1/2020 Analyzed: 7/2/2020

DRO	0.867650	0.05	0.05	1.00000	86.8	45 - 161	10.3	20
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<i>Surrogate: p-Terphenyl</i>	0.08601			8.00000E-2	108	32 - 169
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## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

### Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec Limits	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0638 - MSVOA\_LL\_W**

**Blank (B0F0638-BLK1)**

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,1,1,2-Tetrachloroethane	ND	0.50	0.11
1,1,1-Trichloroethane	ND	0.50	0.21
1,1,2,2-Tetrachloroethane	ND	0.50	0.36
1,1,2-Trichloroethane	ND	0.50	0.25
1,1-Dichloroethane	ND	0.50	0.09
1,1-Dichloroethene	ND	0.50	0.13
1,1-Dichloropropene	ND	0.50	0.13
1,2,3-Trichloropropane	ND	0.50	0.39
1,2,3-Trichlorobenzene	ND	0.50	0.18
1,2,4-Trichlorobenzene	ND	0.50	0.16
1,2,4-Trimethylbenzene	ND	0.50	0.14
1,2-Dibromo-3-chloropropane	ND	0.50	0.41
1,2-Dibromoethane	ND	0.50	0.24
1,2-Dichlorobenzene	ND	0.50	0.20
1,2-Dichloroethane	ND	0.50	0.20
1,2-Dichloropropane	ND	0.50	0.15
1,3,5-Trimethylbenzene	ND	0.50	0.13
1,3-Dichlorobenzene	ND	0.50	0.16
1,3-Dichloropropane	ND	0.50	0.21
1,4-Dichlorobenzene	ND	0.50	0.17
2,2-Dichloropropane	ND	0.50	0.38
2-Chlorotoluene	ND	0.50	0.11
4-Chlorotoluene	ND	0.50	0.12
4-Isopropyltoluene	ND	0.50	0.11
Benzene	ND	0.50	0.13
Bromobenzene	ND	0.50	0.21
Bromochloromethane	ND	0.50	0.16
Bromodichloromethane	ND	0.50	0.14
Bromoform	ND	0.50	0.20
Bromomethane	ND	0.50	0.40
Carbon disulfide	ND	1.0	0.07
Carbon tetrachloride	ND	0.50	0.09
Chlorobenzene	ND	0.50	0.13
Chloroethane	ND	0.50	0.15
Chloroform	ND	0.50	0.11
Chloromethane	ND	0.50	0.12
cis-1,2-Dichloroethene	ND	0.50	0.14
cis-1,3-Dichloropropene	ND	0.50	0.13
Di-isopropyl ether	ND	0.50	0.15
Dibromochloromethane	ND	0.50	0.16





## Certificate of Analysis

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Project Number : New Dock, CM20167740  
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### Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0638 - MSVOA\_LL\_W (continued)**

**Blank (B0F0638-BLK1) - Continued**

Prepared: 6/30/2020 Analyzed: 6/30/2020

Dibromomethane	ND	0.50	0.19
Dichlorodifluoromethane	ND	0.50	0.18
Ethyl Acetate	ND	10	8.7
Ethyl Ether	ND	10	2.0
Ethyl tert-butyl ether	ND	0.50	0.21
Ethylbenzene	ND	0.50	0.13
Freon-113	ND	0.50	0.13
Hexachlorobutadiene	ND	0.50	0.15
Isopropylbenzene	ND	0.50	0.10
m,p-Xylene	ND	1.0	0.19
Methylene chloride	ND	1.0	0.71
MTBE	ND	0.50	0.26
n-Butylbenzene	ND	0.50	0.11
n-Propylbenzene	ND	0.50	0.10
Naphthalene	ND	0.50	0.41
o-Xylene	ND	0.50	0.13
sec-Butylbenzene	ND	0.50	0.09
Styrene	ND	0.50	0.13
tert-Amyl methyl ether	ND	0.50	0.41
tert-Butanol	ND	10	2.4
tert-Butylbenzene	ND	0.50	0.09
Tetrachloroethene	ND	0.50	0.10
Toluene	ND	0.50	0.12
trans-1,2-Dichloroethene	ND	0.50	0.09
trans-1,3-Dichloropropene	ND	0.50	0.23
Trichloroethene	ND	0.50	0.10
Trichlorofluoromethane	ND	0.50	0.23
Vinyl acetate	ND	10	1.7
Vinyl chloride	ND	0.50	0.13

<i>Surrogate: 1,2-Dichloroethane-d4</i>	28.53		25.0000	114	59 - 158
<i>Surrogate: 4-Bromofluorobenzene</i>	23.52		25.0000	94.1	71 - 127
<i>Surrogate: Dibromofluoromethane</i>	26.02		25.0000	104	66 - 147
<i>Surrogate: Toluene-d8</i>	24.25		25.0000	97.0	77 - 138

**LCS (B0F0638-BS1)**

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,1,1,2-Tetrachloroethane	19.8200	0.50	0.11	20.0000	99.1	71 - 133
1,1,1-Trichloroethane	21.1200	0.50	0.21	20.0000	106	62 - 124
1,1,2,2-Tetrachloroethane	17.0600	0.50	0.36	20.0000	85.3	50 - 131
1,1,2-Trichloroethane	19.6500	0.50	0.25	20.0000	98.2	77 - 121
1,1-Dichloroethane	21.0700	0.50	0.09	20.0000	105	52 - 130



# Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

## Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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### Batch B0F0638 - MSVOA\_LL\_W (continued)

#### LCS (B0F0638-BS1) - Continued

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,1-Dichloroethene	21.4600	0.50	0.13	20.0000		107	61 - 136			
1,1-Dichloropropene	21.1300	0.50	0.13	20.0000		106	80 - 128			
1,2,3-Trichloropropane	19.4300	0.50	0.39	20.0000		97.2	59 - 126			
1,2,3-Trichlorobenzene	15.3700	0.50	0.18	20.0000		76.8	69 - 138			
1,2,4-Trichlorobenzene	17.5100	0.50	0.16	20.0000		87.6	78 - 125			
1,2,4-Trimethylbenzene	20.7100	0.50	0.14	20.0000		104	70 - 126			
1,2-Dibromo-3-chloropropane	18.6500	0.50	0.41	20.0000		93.2	58 - 127			
1,2-Dibromoethane	19.5000	0.50	0.24	20.0000		97.5	76 - 120			
1,2-Dichlorobenzene	18.9100	0.50	0.20	20.0000		94.6	82 - 117			
1,2-Dichloroethane	20.6000	0.50	0.20	20.0000		103	66 - 126			
1,2-Dichloropropane	20.2900	0.50	0.15	20.0000		101	70 - 117			
1,3,5-Trimethylbenzene	19.5500	0.50	0.13	20.0000		97.8	71 - 125			
1,3-Dichlorobenzene	19.3100	0.50	0.16	20.0000		96.6	81 - 116			
1,3-Dichloropropane	19.2700	0.50	0.21	20.0000		96.4	69 - 124			
1,4-Dichlorobenzene	19.3300	0.50	0.17	20.0000		96.6	80 - 114			
2,2-Dichloropropane	24.7400	0.50	0.38	20.0000		124	58 - 132			
2-Chlorotoluene	18.7000	0.50	0.11	20.0000		93.5	71 - 119			
4-Chlorotoluene	19.6000	0.50	0.12	20.0000		98.0	72 - 122			
4-Isopropyltoluene	21.1800	0.50	0.11	20.0000		106	69 - 126			
Benzene	20.5800	0.50	0.13	20.0000		103	80 - 116			
Bromobenzene	18.0300	0.50	0.21	20.0000		90.2	77 - 118			
Bromochloromethane	20.1600	0.50	0.16	20.0000		101	68 - 121			
Bromodichloromethane	19.5900	0.50	0.14	20.0000		98.0	73 - 118			
Bromoform	18.3600	0.50	0.20	20.0000		91.8	65 - 133			
Bromomethane	17.4100	0.50	0.40	20.0000		87.0	7 - 205			
Carbon disulfide	21.5100	1.0	0.07	20.0000		108	55 - 131			
Carbon tetrachloride	22.0400	0.50	0.09	20.0000		110	63 - 133			
Chlorobenzene	19.5900	0.50	0.13	20.0000		98.0	86 - 113			
Chloroethane	26.4400	0.50	0.15	20.0000		132	66 - 141			
Chloroform	20.9900	0.50	0.11	20.0000		105	63 - 127			
Chloromethane	17.9900	0.50	0.12	20.0000		90.0	0 - 207			
cis-1,2-Dichloroethene	20.7400	0.50	0.14	20.0000		104	64 - 126			
cis-1,3-Dichloropropene	21.4300	0.50	0.13	20.0000		107	70 - 141			
Di-isopropyl ether	22.6000	0.50	0.15	20.0000		113	56 - 131			
Dibromochloromethane	19.8800	0.50	0.16	20.0000		99.4	67 - 135			
Dibromomethane	18.9400	0.50	0.19	20.0000		94.7	74 - 118			
Dichlorodifluoromethane	6.56000	0.50	0.18	20.0000		32.8	14 - 181			
Ethyl Acetate	219.130	10	8.7	200.000		110	49 - 128			
Ethyl Ether	201.670	10	2.0	200.000		101	53 - 143			
Ethyl tert-butyl ether	23.2300	0.50	0.21	20.0000		116	54 - 132			



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

### Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0638 - MSVOA\_LL\_W (continued)**

**LCS (B0F0638-BS1) - Continued**

Prepared: 6/30/2020 Analyzed: 6/30/2020

Ethylbenzene	20.5600	0.50	0.13	20.0000		103	77 - 118			
Freon-113	19.8700	0.50	0.13	20.0000		99.4	68 - 145			
Hexachlorobutadiene	18.6000	0.50	0.15	20.0000		93.0	66 - 125			
Isopropylbenzene	18.8700	0.50	0.10	20.0000		94.4	68 - 137			
m,p-Xylene	41.0100	1.0	0.19	40.0000		103	78 - 126			
Methylene chloride	19.1800	1.0	0.71	20.0000		95.9	51 - 149			
MTBE	18.8100	0.50	0.26	20.0000		94.0	63 - 128			
n-Butylbenzene	20.1600	0.50	0.11	20.0000		101	63 - 127			
n-Propylbenzene	19.8200	0.50	0.10	20.0000		99.1	69 - 124			
Naphthalene	13.7700	0.50	0.41	20.0000		68.8	60 - 126			
o-Xylene	20.0700	0.50	0.13	20.0000		100	79 - 126			
sec-Butylbenzene	20.1900	0.50	0.09	20.0000		101	69 - 124			
Styrene	22.8900	0.50	0.13	20.0000		114	80 - 127			
tert-Amyl methyl ether	22.1900	0.50	0.41	20.0000		111	49 - 130			
tert-Butanol	93.8300	10	2.4	100.000		93.8	29 - 163			
tert-Butylbenzene	18.6200	0.50	0.09	20.0000		93.1	71 - 124			
Tetrachloroethene	19.9500	0.50	0.10	20.0000		99.8	73 - 129			
Toluene	20.3500	0.50	0.12	20.0000		102	78 - 121			
trans-1,2-Dichloroethene	21.0300	0.50	0.09	20.0000		105	58 - 141			
trans-1,3-Dichloropropene	22.0000	0.50	0.23	20.0000		110	68 - 128			
Trichloroethene	18.6600	0.50	0.10	20.0000		93.3	73 - 126			
Trichlorofluoromethane	18.8000	0.50	0.23	20.0000		94.0	62 - 146			
Vinyl acetate	239.750	10	1.7	200.000		120	53 - 153			
Vinyl chloride	18.2700	0.50	0.13	20.0000		91.4	61 - 137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>25.89</i>			<i>25.0000</i>		<i>104</i>	<i>59 - 158</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>25.95</i>			<i>25.0000</i>		<i>104</i>	<i>71 - 127</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>26.23</i>			<i>25.0000</i>		<i>105</i>	<i>66 - 147</i>			
<i>Surrogate: Toluene-d8</i>	<i>25.28</i>			<i>25.0000</i>		<i>101</i>	<i>77 - 138</i>			

**LCS Dup (B0F0638-BS1)**

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,1,1,2-Tetrachloroethane	21.0300	0.50	0.11	20.0000		105	71 - 133	5.92	20	
1,1,1-Trichloroethane	22.0500	0.50	0.21	20.0000		110	62 - 124	4.31	20	
1,1,2,2-Tetrachloroethane	19.4900	0.50	0.36	20.0000		97.4	50 - 131	13.3	20	
1,1,2-Trichloroethane	21.5400	0.50	0.25	20.0000		108	77 - 121	9.18	20	
1,1-Dichloroethane	22.6100	0.50	0.09	20.0000		113	52 - 130	7.05	20	
1,1-Dichloroethene	21.5200	0.50	0.13	20.0000		108	61 - 136	0.279	20	
1,1-Dichloropropene	21.9300	0.50	0.13	20.0000		110	80 - 128	3.72	20	
1,2,3-Trichloropropane	21.9800	0.50	0.39	20.0000		110	59 - 126	12.3	20	
1,2,3-Trichlorobenzene	18.0300	0.50	0.18	20.0000		90.2	69 - 138	15.9	20	
1,2,4-Trichlorobenzene	19.0000	0.50	0.16	20.0000		95.0	78 - 125	8.16	20	



# Certificate of Analysis

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Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

## Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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### Batch B0F0638 - MSVOA\_LL\_W (continued)

#### LCS Dup (B0F0638-BSD1) - Continued

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,2,4-Trimethylbenzene	21.6600	0.50	0.14	20.0000	108	70 - 126	4.48	20	
1,2-Dibromo-3-chloropropane	20.0600	0.50	0.41	20.0000	100	58 - 127	7.28	20	
1,2-Dibromoethane	21.7400	0.50	0.24	20.0000	109	76 - 120	10.9	20	
1,2-Dichlorobenzene	21.0500	0.50	0.20	20.0000	105	82 - 117	10.7	20	
1,2-Dichloroethane	22.1000	0.50	0.20	20.0000	110	66 - 126	7.03	20	
1,2-Dichloropropane	21.5800	0.50	0.15	20.0000	108	70 - 117	6.16	20	
1,3,5-Trimethylbenzene	20.7900	0.50	0.13	20.0000	104	71 - 125	6.15	20	
1,3-Dichlorobenzene	21.2100	0.50	0.16	20.0000	106	81 - 116	9.38	20	
1,3-Dichloropropane	21.1900	0.50	0.21	20.0000	106	69 - 124	9.49	20	
1,4-Dichlorobenzene	20.7100	0.50	0.17	20.0000	104	80 - 114	6.89	20	
2,2-Dichloropropane	25.5000	0.50	0.38	20.0000	128	58 - 132	3.03	20	
2-Chlorotoluene	19.5500	0.50	0.11	20.0000	97.8	71 - 119	4.44	20	
4-Chlorotoluene	20.6600	0.50	0.12	20.0000	103	72 - 122	5.27	20	
4-Isopropyltoluene	22.2600	0.50	0.11	20.0000	111	69 - 126	4.97	20	
Benzene	21.6100	0.50	0.13	20.0000	108	80 - 116	4.88	20	
Bromobenzene	19.5000	0.50	0.21	20.0000	97.5	77 - 118	7.83	20	
Bromochloromethane	23.1500	0.50	0.16	20.0000	116	68 - 121	13.8	20	
Bromodichloromethane	20.7500	0.50	0.14	20.0000	104	73 - 118	5.75	20	
Bromoform	21.3800	0.50	0.20	20.0000	107	65 - 133	15.2	20	
Bromomethane	17.6000	0.50	0.40	20.0000	88.0	7 - 205	1.09	20	
Carbon disulfide	22.3100	1.0	0.07	20.0000	112	55 - 131	3.65	20	
Carbon tetrachloride	22.6700	0.50	0.09	20.0000	113	63 - 133	2.82	20	
Chlorobenzene	20.1200	0.50	0.13	20.0000	101	86 - 113	2.67	20	
Chloroethane	26.5700	0.50	0.15	20.0000	133	66 - 141	0.490	20	
Chloroform	21.7100	0.50	0.11	20.0000	109	63 - 127	3.37	20	
Chloromethane	18.3200	0.50	0.12	20.0000	91.6	0 - 207	1.82	20	
cis-1,2-Dichloroethene	21.5100	0.50	0.14	20.0000	108	64 - 126	3.64	20	
cis-1,3-Dichloropropene	23.7800	0.50	0.13	20.0000	119	70 - 141	10.4	20	
Di-isopropyl ether	24.9100	0.50	0.15	20.0000	125	56 - 131	9.72	20	
Dibromochloromethane	22.0600	0.50	0.16	20.0000	110	67 - 135	10.4	20	
Dibromomethane	21.3700	0.50	0.19	20.0000	107	74 - 118	12.1	20	
Dichlorodifluoromethane	6.64000	0.50	0.18	20.0000	33.2	14 - 181	1.21	20	
Ethyl Acetate	256.840	10	8.7	200.000	128	49 - 128	15.8	20	
Ethyl Ether	227.810	10	2.0	200.000	114	53 - 143	12.2	20	
Ethyl tert-butyl ether	25.7300	0.50	0.21	20.0000	129	54 - 132	10.2	20	
Ethylbenzene	20.7200	0.50	0.13	20.0000	104	77 - 118	0.775	20	
Freon-113	19.8900	0.50	0.13	20.0000	99.4	68 - 145	0.101	20	
Hexachlorobutadiene	19.6600	0.50	0.15	20.0000	98.3	66 - 125	5.54	20	
Isopropylbenzene	19.8800	0.50	0.10	20.0000	99.4	68 - 137	5.21	20	
m,p-Xylene	41.9500	1.0	0.19	40.0000	105	78 - 126	2.27	20	



## Certificate of Analysis

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Project Number : New Dock, CM20167740  
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### Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0638 - MSVOA\_LL\_W (continued)**

**LCS Dup (B0F0638-BSD1) - Continued**

Prepared: 6/30/2020 Analyzed: 6/30/2020

Methylene chloride	20.4800	1.0	0.71	20.0000		102	51 - 149	6.56	20	
MTBE	21.0600	0.50	0.26	20.0000		105	63 - 128	11.3	20	
n-Butylbenzene	21.0400	0.50	0.11	20.0000		105	63 - 127	4.27	20	
n-Propylbenzene	20.6200	0.50	0.10	20.0000		103	69 - 124	3.96	20	
Naphthalene	16.8200	0.50	0.41	20.0000		84.1	60 - 126	19.9	20	
o-Xylene	20.7500	0.50	0.13	20.0000		104	79 - 126	3.33	20	
sec-Butylbenzene	20.7800	0.50	0.09	20.0000		104	69 - 124	2.88	20	
Styrene	24.0800	0.50	0.13	20.0000		120	80 - 127	5.07	20	
tert-Amyl methyl ether	24.5200	0.50	0.41	20.0000		123	49 - 130	9.98	20	
tert-Butanol	112.150	10	2.4	100.000		112	29 - 163	17.8	20	
tert-Butylbenzene	19.6900	0.50	0.09	20.0000		98.4	71 - 124	5.59	20	
Tetrachloroethene	20.3100	0.50	0.10	20.0000		102	73 - 129	1.79	20	
Toluene	21.4800	0.50	0.12	20.0000		107	78 - 121	5.40	20	
trans-1,2-Dichloroethene	22.1800	0.50	0.09	20.0000		111	58 - 141	5.32	20	
trans-1,3-Dichloropropene	25.3300	0.50	0.23	20.0000		127	68 - 128	14.1	20	
Trichloroethene	19.7800	0.50	0.10	20.0000		98.9	73 - 126	5.83	20	
Trichlorofluoromethane	19.0400	0.50	0.23	20.0000		95.2	62 - 146	1.27	20	
Vinyl acetate	269.530	10	1.7	200.000		135	53 - 153	11.7	20	
Vinyl chloride	18.2100	0.50	0.13	20.0000		91.0	61 - 137	0.329	20	
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<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>27.86</i>			<i>25.0000</i>		<i>111</i>	<i>59 - 158</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>25.53</i>			<i>25.0000</i>		<i>102</i>	<i>71 - 127</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>26.23</i>			<i>25.0000</i>		<i>105</i>	<i>66 - 147</i>			
<i>Surrogate: Toluene-d8</i>	<i>25.41</i>			<i>25.0000</i>		<i>102</i>	<i>77 - 138</i>			



# Certificate of Analysis

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Project Number : New Dock, CM20167740  
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## Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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### Batch B0G0003 - MSVOA\_LL\_W

#### Blank (B0G0003-BLK1)

Prepared: 7/1/2020 Analyzed: 7/1/2020

1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.21							
1,1,2,2-Tetrachloroethane	ND	0.50	0.36							
1,1,2-Trichloroethane	ND	0.50	0.25							
1,1-Dichloroethane	ND	0.50	0.09							
1,1-Dichloroethene	ND	0.50	0.13							
1,1-Dichloropropene	ND	0.50	0.13							
1,2,3-Trichloropropane	ND	0.50	0.39							
1,2,3-Trichlorobenzene	ND	0.50	0.18							
1,2,4-Trichlorobenzene	ND	0.50	0.16							
1,2,4-Trimethylbenzene	ND	0.50	0.14							
1,2-Dibromo-3-chloropropane	ND	0.50	0.41							
1,2-Dibromoethane	ND	0.50	0.24							
1,2-Dichlorobenzene	ND	0.50	0.20							
1,2-Dichloroethane	ND	0.50	0.20							
1,2-Dichloropropane	ND	0.50	0.15							
1,3,5-Trimethylbenzene	ND	0.50	0.13							
1,3-Dichlorobenzene	ND	0.50	0.16							
1,3-Dichloropropane	ND	0.50	0.21							
1,4-Dichlorobenzene	ND	0.50	0.17							
2,2-Dichloropropane	ND	0.50	0.38							
2-Chlorotoluene	ND	0.50	0.11							
4-Chlorotoluene	ND	0.50	0.12							
4-Isopropyltoluene	ND	0.50	0.11							
Benzene	ND	0.50	0.13							
Bromobenzene	ND	0.50	0.21							
Bromochloromethane	ND	0.50	0.16							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.20							
Bromomethane	ND	0.50	0.40							
Carbon disulfide	ND	1.0	0.07							
Carbon tetrachloride	ND	0.50	0.09							
Chlorobenzene	ND	0.50	0.13							
Chloroethane	ND	0.50	0.15							
Chloroform	ND	0.50	0.11							
Chloromethane	ND	0.50	0.12							
cis-1,2-Dichloroethene	ND	0.50	0.14							
cis-1,3-Dichloropropene	ND	0.50	0.13							
Di-isopropyl ether	ND	0.50	0.15							
Dibromochloromethane	ND	0.50	0.16							



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

### Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0G0003 - MSVOA\_LL\_W (continued)**

**Blank (B0G0003-BLK1) - Continued**

Prepared: 7/1/2020 Analyzed: 7/1/2020

Dibromomethane	ND	0.50	0.19						
Dichlorodifluoromethane	ND	0.50	0.18						
Ethyl Acetate	ND	10	8.7						
Ethyl Ether	ND	10	2.0						
Ethyl tert-butyl ether	ND	0.50	0.21						
Ethylbenzene	ND	0.50	0.13						
Freon-113	ND	0.50	0.13						
Hexachlorobutadiene	ND	0.50	0.15						
Isopropylbenzene	ND	0.50	0.10						
m,p-Xylene	ND	1.0	0.19						
Methylene chloride	ND	1.0	0.71						
MTBE	ND	0.50	0.26						
n-Butylbenzene	ND	0.50	0.11						
n-Propylbenzene	ND	0.50	0.10						
Naphthalene	ND	0.50	0.41						
o-Xylene	ND	0.50	0.13						
sec-Butylbenzene	ND	0.50	0.09						
Styrene	ND	0.50	0.13						
tert-Amyl methyl ether	ND	0.50	0.41						
tert-Butanol	ND	10	2.4						
tert-Butylbenzene	ND	0.50	0.09						
Tetrachloroethene	ND	0.50	0.10						
Toluene	ND	0.50	0.12						
trans-1,2-Dichloroethene	ND	0.50	0.09						
trans-1,3-Dichloropropene	ND	0.50	0.23						
Trichloroethene	ND	0.50	0.10						
Trichlorofluoromethane	ND	0.50	0.23						
Vinyl acetate	ND	10	1.7						
Vinyl chloride	ND	0.50	0.13						

<i>Surrogate: 1,2-Dichloroethane-d4</i>	33.73		25.0000		135	59 - 158
<i>Surrogate: 4-Bromofluorobenzene</i>	28.07		25.0000		112	71 - 127
<i>Surrogate: Dibromofluoromethane</i>	27.61		25.0000		110	66 - 147
<i>Surrogate: Toluene-d8</i>	27.42		25.0000		110	77 - 138

**LCS (B0G0003-BS1)**

Prepared: 7/1/2020 Analyzed: 7/1/2020

1,1,1,2-Tetrachloroethane	19.3900	0.50	0.11	20.0000	97.0	71 - 133	
1,1,1-Trichloroethane	18.6600	0.50	0.21	20.0000	93.3	62 - 124	
1,1,2,2-Tetrachloroethane	26.5700	0.50	0.36	20.0000	133	50 - 131	L4
1,1,2-Trichloroethane	24.3500	0.50	0.25	20.0000	122	77 - 121	L4
1,1-Dichloroethane	18.3900	0.50	0.09	20.0000	92.0	52 - 130	



# Certificate of Analysis

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Project Number : New Dock, CM20167740  
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## Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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### Batch B0G0003 - MSVOA\_LL\_W (continued)

#### LCS (B0G0003-BS1) - Continued

Prepared: 7/1/2020 Analyzed: 7/1/2020

1,1-Dichloroethene	19.4500	0.50	0.13	20.0000		97.2	61 - 136			
1,1-Dichloropropene	19.3100	0.50	0.13	20.0000		96.6	80 - 128			
1,2,3-Trichloropropane	24.7500	0.50	0.39	20.0000		124	59 - 126			
1,2,3-Trichlorobenzene	27.6000	0.50	0.18	20.0000		138	69 - 138			
1,2,4-Trichlorobenzene	23.5500	0.50	0.16	20.0000		118	78 - 125			
1,2,4-Trimethylbenzene	21.0200	0.50	0.14	20.0000		105	70 - 126			
1,2-Dibromo-3-chloropropane	22.2900	0.50	0.41	20.0000		111	58 - 127			
1,2-Dibromoethane	26.7900	0.50	0.24	20.0000		134	76 - 120			L5
1,2-Dichlorobenzene	20.7100	0.50	0.20	20.0000		104	82 - 117			
1,2-Dichloroethane	23.7200	0.50	0.20	20.0000		119	66 - 126			
1,2-Dichloropropane	21.8500	0.50	0.15	20.0000		109	70 - 117			
1,3,5-Trimethylbenzene	21.5500	0.50	0.13	20.0000		108	71 - 125			
1,3-Dichlorobenzene	19.8200	0.50	0.16	20.0000		99.1	81 - 116			
1,3-Dichloropropane	22.3600	0.50	0.21	20.0000		112	69 - 124			
1,4-Dichlorobenzene	19.0500	0.50	0.17	20.0000		95.2	80 - 114			
2,2-Dichloropropane	17.8300	0.50	0.38	20.0000		89.2	58 - 132			
2-Chlorotoluene	19.6900	0.50	0.11	20.0000		98.4	71 - 119			
4-Chlorotoluene	21.3800	0.50	0.12	20.0000		107	72 - 122			
4-Isopropyltoluene	22.6800	0.50	0.11	20.0000		113	69 - 126			
Benzene	20.0100	0.50	0.13	20.0000		100	80 - 116			
Bromobenzene	18.8300	0.50	0.21	20.0000		94.2	77 - 118			
Bromochloromethane	21.3300	0.50	0.16	20.0000		107	68 - 121			
Bromodichloromethane	21.5200	0.50	0.14	20.0000		108	73 - 118			
Bromoform	21.8000	0.50	0.20	20.0000		109	65 - 133			
Bromomethane	14.4700	0.50	0.40	20.0000		72.4	7 - 205			
Carbon disulfide	17.5500	1.0	0.07	20.0000		87.8	55 - 131			
Carbon tetrachloride	19.0800	0.50	0.09	20.0000		95.4	63 - 133			
Chlorobenzene	19.2400	0.50	0.13	20.0000		96.2	86 - 113			
Chloroethane	19.4400	0.50	0.15	20.0000		97.2	66 - 141			
Chloroform	20.0500	0.50	0.11	20.0000		100	63 - 127			
Chloromethane	16.9800	0.50	0.12	20.0000		84.9	0 - 207			
cis-1,2-Dichloroethene	19.1300	0.50	0.14	20.0000		95.6	64 - 126			
cis-1,3-Dichloropropene	20.9100	0.50	0.13	20.0000		105	70 - 141			
Di-isopropyl ether	19.7000	0.50	0.15	20.0000		98.5	56 - 131			
Dibromochloromethane	21.1500	0.50	0.16	20.0000		106	67 - 135			
Dibromomethane	23.0800	0.50	0.19	20.0000		115	74 - 118			
Dichlorodifluoromethane	11.5500	0.50	0.18	20.0000		57.8	14 - 181			
Ethyl Acetate	271.150	10	8.7	200.000		136	49 - 128			L5
Ethyl Ether	237.330	10	2.0	200.000		119	53 - 143			
Ethyl tert-butyl ether	20.7900	0.50	0.21	20.0000		104	54 - 132			





## Certificate of Analysis

Wood PLC  
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Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

### Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0G0003 - MSVOA\_LL\_W (continued)**

**LCS (B0G0003-BS1) - Continued**

Prepared: 7/1/2020 Analyzed: 7/1/2020

Ethylbenzene	19.8600	0.50	0.13	20.0000		99.3	77 - 118			
Freon-113	20.0100	0.50	0.13	20.0000		100	68 - 145			
Hexachlorobutadiene	25.6200	0.50	0.15	20.0000		128	66 - 125			L3
Isopropylbenzene	20.3700	0.50	0.10	20.0000		102	68 - 137			
m,p-Xylene	40.8000	1.0	0.19	40.0000		102	78 - 126			
Methylene chloride	21.7600	1.0	0.71	20.0000		109	51 - 149			
MTBE	21.4000	0.50	0.26	20.0000		107	63 - 128			
n-Butylbenzene	25.2300	0.50	0.11	20.0000		126	63 - 127			
n-Propylbenzene	20.6800	0.50	0.10	20.0000		103	69 - 124			
Naphthalene	24.8900	0.50	0.41	20.0000		124	60 - 126			
o-Xylene	20.6400	0.50	0.13	20.0000		103	79 - 126			
sec-Butylbenzene	22.2300	0.50	0.09	20.0000		111	69 - 124			
Styrene	22.6400	0.50	0.13	20.0000		113	80 - 127			
tert-Amyl methyl ether	20.0500	0.50	0.41	20.0000		100	49 - 130			
tert-Butanol	90.5200	10	2.4	100.000		90.5	29 - 163			
tert-Butylbenzene	19.8400	0.50	0.09	20.0000		99.2	71 - 124			
Tetrachloroethene	17.5200	0.50	0.10	20.0000		87.6	73 - 129			
Toluene	21.0100	0.50	0.12	20.0000		105	78 - 121			
trans-1,2-Dichloroethene	19.3800	0.50	0.09	20.0000		96.9	58 - 141			
trans-1,3-Dichloropropene	21.8100	0.50	0.23	20.0000		109	68 - 128			
Trichloroethene	19.0300	0.50	0.10	20.0000		95.2	73 - 126			
Trichlorofluoromethane	18.3100	0.50	0.23	20.0000		91.6	62 - 146			
Vinyl acetate	318.000	10	1.7	200.000		159	53 - 153			L4
Vinyl chloride	17.8800	0.50	0.13	20.0000		89.4	61 - 137			
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Surrogate: 1,2-Dichloroethane-d4	30.99			25.0000		124	59 - 158			
Surrogate: 4-Bromofluorobenzene	27.61			25.0000		110	71 - 127			
Surrogate: Dibromofluoromethane	27.73			25.0000		111	66 - 147			
Surrogate: Toluene-d8	27.70			25.0000		111	77 - 138			

**LCS Dup (B0G0003-BS1)**

Prepared: 7/1/2020 Analyzed: 7/1/2020

1,1,1,2-Tetrachloroethane	19.1900	0.50	0.11	20.0000		96.0	71 - 133	1.04	20	
1,1,1-Trichloroethane	17.7200	0.50	0.21	20.0000		88.6	62 - 124	5.17	20	
1,1,2,2-Tetrachloroethane	28.7600	0.50	0.36	20.0000		144	50 - 131	7.92	20	L4
1,1,2-Trichloroethane	23.8500	0.50	0.25	20.0000		119	77 - 121	2.07	20	
1,1-Dichloroethane	18.2500	0.50	0.09	20.0000		91.2	52 - 130	0.764	20	
1,1-Dichloroethene	18.9400	0.50	0.13	20.0000		94.7	61 - 136	2.66	20	
1,1-Dichloropropene	19.8500	0.50	0.13	20.0000		99.2	80 - 128	2.76	20	
1,2,3-Trichloropropane	26.0500	0.50	0.39	20.0000		130	59 - 126	5.12	20	L5
1,2,3-Trichlorobenzene	28.8400	0.50	0.18	20.0000		144	69 - 138	4.39	20	L5
1,2,4-Trichlorobenzene	24.8100	0.50	0.16	20.0000		124	78 - 125	5.21	20	



# Certificate of Analysis

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Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

## Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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### Batch B0G0003 - MSVOA\_LL\_W (continued)

#### LCS Dup (B0G0003-BSD1) - Continued

Prepared: 7/1/2020 Analyzed: 7/1/2020

1,2,4-Trimethylbenzene	19.5500	0.50	0.14	20.0000		97.8	70 - 126	7.25	20	
1,2-Dibromo-3-chloropropane	27.8000	0.50	0.41	20.0000		139	58 - 127	22.0	20	L5, R
1,2-Dibromoethane	27.1100	0.50	0.24	20.0000		136	76 - 120	1.19	20	L5
1,2-Dichlorobenzene	20.8500	0.50	0.20	20.0000		104	82 - 117	0.674	20	
1,2-Dichloroethane	22.8200	0.50	0.20	20.0000		114	66 - 126	3.87	20	
1,2-Dichloropropane	21.2700	0.50	0.15	20.0000		106	70 - 117	2.69	20	
1,3,5-Trimethylbenzene	20.3500	0.50	0.13	20.0000		102	71 - 125	5.73	20	
1,3-Dichlorobenzene	19.4900	0.50	0.16	20.0000		97.4	81 - 116	1.68	20	
1,3-Dichloropropane	23.2100	0.50	0.21	20.0000		116	69 - 124	3.73	20	
1,4-Dichlorobenzene	18.6800	0.50	0.17	20.0000		93.4	80 - 114	1.96	20	
2,2-Dichloropropane	16.9700	0.50	0.38	20.0000		84.8	58 - 132	4.94	20	
2-Chlorotoluene	18.3100	0.50	0.11	20.0000		91.6	71 - 119	7.26	20	
4-Chlorotoluene	19.6700	0.50	0.12	20.0000		98.4	72 - 122	8.33	20	
4-Isopropyltoluene	21.3200	0.50	0.11	20.0000		107	69 - 126	6.18	20	
Benzene	19.7600	0.50	0.13	20.0000		98.8	80 - 116	1.26	20	
Bromobenzene	18.9500	0.50	0.21	20.0000		94.8	77 - 118	0.635	20	
Bromochloromethane	21.3500	0.50	0.16	20.0000		107	68 - 121	0.0937	20	
Bromodichloromethane	20.7500	0.50	0.14	20.0000		104	73 - 118	3.64	20	
Bromoform	23.3200	0.50	0.20	20.0000		117	65 - 133	6.74	20	
Bromomethane	14.7200	0.50	0.40	20.0000		73.6	7 - 205	1.71	20	
Carbon disulfide	16.8400	1.0	0.07	20.0000		84.2	55 - 131	4.13	20	
Carbon tetrachloride	17.4300	0.50	0.09	20.0000		87.2	63 - 133	9.04	20	
Chlorobenzene	19.3700	0.50	0.13	20.0000		96.8	86 - 113	0.673	20	
Chloroethane	19.7700	0.50	0.15	20.0000		98.8	66 - 141	1.68	20	
Chloroform	19.6800	0.50	0.11	20.0000		98.4	63 - 127	1.86	20	
Chloromethane	16.3100	0.50	0.12	20.0000		81.6	0 - 207	4.03	20	
cis-1,2-Dichloroethene	19.3600	0.50	0.14	20.0000		96.8	64 - 126	1.20	20	
cis-1,3-Dichloropropene	20.5000	0.50	0.13	20.0000		102	70 - 141	1.98	20	
Di-isopropyl ether	19.7700	0.50	0.15	20.0000		98.8	56 - 131	0.355	20	
Dibromochloromethane	21.2200	0.50	0.16	20.0000		106	67 - 135	0.330	20	
Dibromomethane	23.9500	0.50	0.19	20.0000		120	74 - 118	3.70	20	L3
Dichlorodifluoromethane	11.0100	0.50	0.18	20.0000		55.0	14 - 181	4.79	20	
Ethyl Acetate	307.390	10	8.7	200.000		154	49 - 128	12.5	20	L5
Ethyl Ether	243.640	10	2.0	200.000		122	53 - 143	2.62	20	
Ethyl tert-butyl ether	21.4600	0.50	0.21	20.0000		107	54 - 132	3.17	20	
Ethylbenzene	19.3800	0.50	0.13	20.0000		96.9	77 - 118	2.45	20	
Freon-113	18.3800	0.50	0.13	20.0000		91.9	68 - 145	8.49	20	
Hexachlorobutadiene	24.2700	0.50	0.15	20.0000		121	66 - 125	5.41	20	
Isopropylbenzene	18.6700	0.50	0.10	20.0000		93.4	68 - 137	8.71	20	
m,p-Xylene	39.9600	1.0	0.19	40.0000		99.9	78 - 126	2.08	20	



## Certificate of Analysis

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### Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Batch B0G0003 - MSVOA\_LL\_W (continued)**

**LCS Dup (B0G0003-BSD1) - Continued**

Prepared: 7/1/2020 Analyzed: 7/1/2020

Methylene chloride	21.9700	1.0	0.71	20.0000		110	51 - 149	0.960	20	
MTBE	22.4800	0.50	0.26	20.0000		112	63 - 128	4.92	20	
n-Butylbenzene	22.9500	0.50	0.11	20.0000		115	63 - 127	9.46	20	
n-Propylbenzene	19.0900	0.50	0.10	20.0000		95.4	69 - 124	8.00	20	
Naphthalene	28.5000	0.50	0.41	20.0000		142	60 - 126	13.5	20	L5
o-Xylene	20.1800	0.50	0.13	20.0000		101	79 - 126	2.25	20	
sec-Butylbenzene	20.5700	0.50	0.09	20.0000		103	69 - 124	7.76	20	
Styrene	23.1500	0.50	0.13	20.0000		116	80 - 127	2.23	20	
tert-Amyl methyl ether	21.4000	0.50	0.41	20.0000		107	49 - 130	6.51	20	
tert-Butanol	104.010	10	2.4	100.000		104	29 - 163	13.9	20	
tert-Butylbenzene	18.5800	0.50	0.09	20.0000		92.9	71 - 124	6.56	20	
Tetrachloroethene	17.5300	0.50	0.10	20.0000		87.6	73 - 129	0.0571	20	
Toluene	20.7400	0.50	0.12	20.0000		104	78 - 121	1.29	20	
trans-1,2-Dichloroethene	19.0500	0.50	0.09	20.0000		95.2	58 - 141	1.72	20	
trans-1,3-Dichloropropene	22.7900	0.50	0.23	20.0000		114	68 - 128	4.39	20	
Trichloroethene	18.3500	0.50	0.10	20.0000		91.8	73 - 126	3.64	20	
Trichlorofluoromethane	16.9600	0.50	0.23	20.0000		84.8	62 - 146	7.66	20	
Vinyl acetate	336.320	10	1.7	200.000		168	53 - 153	5.60	20	L4
Vinyl chloride	16.5700	0.50	0.13	20.0000		82.8	61 - 137	7.61	20	
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<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>30.92</i>			<i>25.0000</i>		<i>124</i>	<i>59 - 158</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>28.07</i>			<i>25.0000</i>		<i>112</i>	<i>71 - 127</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>27.31</i>			<i>25.0000</i>		<i>109</i>	<i>66 - 147</i>			
<i>Surrogate: Toluene-d8</i>	<i>27.15</i>			<i>25.0000</i>		<i>109</i>	<i>77 - 138</i>			



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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#### Batch B0F0618 - MSVOA\_S

##### Blank (B0F0618-BLK1)

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,1,1,2-Tetrachloroethane	ND	5.0	0.52
1,1,1-Trichloroethane	ND	5.0	0.26
1,1,2,2-Tetrachloroethane	ND	5.0	0.21
1,1,2-Trichloroethane	ND	5.0	0.40
1,1-Dichloroethane	ND	5.0	1.4
1,1-Dichloroethene	ND	5.0	1.9
1,1-Dichloropropene	ND	5.0	0.54
1,2,3-Trichloropropane	ND	5.0	0.40
1,2,3-Trichlorobenzene	ND	5.0	0.83
1,2,4-Trichlorobenzene	ND	5.0	0.80
1,2,4-Trimethylbenzene	ND	5.0	0.91
1,2-Dibromo-3-chloropropane	ND	10	1.1
1,2-Dibromoethane	ND	5.0	0.40
1,2-Dichlorobenzene	ND	5.0	0.21
1,2-Dichloroethane	ND	5.0	0.50
1,2-Dichloropropane	ND	5.0	0.46
1,3,5-Trimethylbenzene	ND	5.0	0.70
1,3-Dichlorobenzene	ND	5.0	0.36
1,3-Dichloropropane	ND	5.0	0.49
1,4-Dichlorobenzene	ND	5.0	0.27
2,2-Dichloropropane	ND	5.0	0.28
2-Chlorotoluene	ND	5.0	0.53
4-Chlorotoluene	ND	5.0	0.40
4-Isopropyltoluene	ND	5.0	0.81
Benzene	ND	5.0	0.36
Bromobenzene	ND	5.0	0.62
Bromochloromethane	ND	5.0	0.30
Bromodichloromethane	ND	5.0	0.52
Bromoform	ND	5.0	1.4
Bromomethane	ND	5.0	2.5
Carbon disulfide	ND	5.0	0.94
Carbon tetrachloride	ND	5.0	0.73
Chlorobenzene	ND	5.0	0.42
Chloroethane	ND	5.0	1.5
Chloroform	ND	5.0	0.24
Chloromethane	ND	5.0	1.1
cis-1,2-Dichloroethene	ND	5.0	0.20
cis-1,3-Dichloropropene	ND	5.0	0.39
Di-isopropyl ether	ND	5.0	1.9
Dibromochloromethane	ND	5.0	0.81



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0618 - MSVOA\_S (continued)**

**Blank (B0F0618-BLK1) - Continued**

Prepared: 6/30/2020 Analyzed: 6/30/2020

Dibromomethane	ND	5.0	0.23					
Dichlorodifluoromethane	ND	5.0	0.14					
Ethyl Acetate	ND	50	7.0					
Ethyl Ether	ND	50	17					
Ethyl tert-butyl ether	ND	5.0	0.85					
Ethylbenzene	ND	5.0	0.43					
Freon-113	ND	5.0	1.3					
Hexachlorobutadiene	ND	5.0	0.40					
Isopropylbenzene	ND	5.0	0.79					
m,p-Xylene	ND	10	0.98					
Methylene chloride	ND	5.0	2.2					
MTBE	ND	5.0	0.81					
n-Butylbenzene	ND	5.0	1.2					
n-Propylbenzene	ND	5.0	0.78					
Naphthalene	ND	5.0	1.1					
o-Xylene	ND	5.0	0.67					
sec-Butylbenzene	ND	5.0	0.63					
Styrene	ND	5.0	0.45					
tert-Amyl methyl ether	ND	5.0	1.1					
tert-Butanol	ND	100	11					
tert-Butylbenzene	ND	5.0	0.80					
Tetrachloroethene	ND	5.0	0.31					
Toluene	ND	5.0	0.27					
trans-1,2-Dichloroethene	ND	5.0	0.56					
trans-1,3-Dichloropropene	ND	5.0	0.59					
Trichloroethene	ND	5.0	0.32					
Trichlorofluoromethane	ND	5.0	1.0					
Vinyl acetate	ND	50	6.0					
Vinyl chloride	ND	5.0	0.92					

<i>Surrogate: 1,2-Dichloroethane-d4</i>	49.36		50.0000		98.7	58 - 160
<i>Surrogate: 4-Bromofluorobenzene</i>	50.04		50.0000		100	72 - 121
<i>Surrogate: Dibromofluoromethane</i>	51.13		50.0000		102	75 - 139
<i>Surrogate: Toluene-d8</i>	53.88		50.0000		108	84 - 115

**LCS (B0F0618-BS1)**

Prepared: 6/29/2020 Analyzed: 6/29/2020

1,1,1,2-Tetrachloroethane	49.4700	5.0	0.52	50.0000	98.9	80 - 114
1,1,1-Trichloroethane	45.3800	5.0	0.26	50.0000	90.8	71 - 127
1,1,2,2-Tetrachloroethane	47.2400	5.0	0.21	50.0000	94.5	73 - 113
1,1,2-Trichloroethane	49.4000	5.0	0.40	50.0000	98.8	78 - 112
1,1-Dichloroethane	50.4800	5.0	1.4	50.0000	101	73 - 123



## Certificate of Analysis

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Report To : Jorge Perez

Reported : 07/15/2020

### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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#### Batch B0F0618 - MSVOA\_S (continued)

#### LCS (B0F0618-BS1) - Continued

Prepared: 6/29/2020 Analyzed: 6/29/2020

1,1-Dichloroethene	39.9000	5.0	1.9	50.0000		79.8	59 - 139			
1,1-Dichloropropene	50.2100	5.0	0.54	50.0000		100	78 - 131			
1,2,3-Trichloropropane	48.3600	5.0	0.40	50.0000		96.7	71 - 117			
1,2,3-Trichlorobenzene	56.3900	5.0	0.83	50.0000		113	68 - 134			
1,2,4-Trichlorobenzene	54.4100	5.0	0.80	50.0000		109	72 - 141			
1,2,4-Trimethylbenzene	57.5400	5.0	0.91	50.0000		115	81 - 122			
1,2-Dibromo-3-chloropropane	42.2300	10	1.1	50.0000		84.5	64 - 134			
1,2-Dibromoethane	48.8900	5.0	0.40	50.0000		97.8	78 - 113			
1,2-Dichlorobenzene	52.3600	5.0	0.21	50.0000		105	79 - 119			
1,2-Dichloroethane	43.4500	5.0	0.50	50.0000		86.9	62 - 126			
1,2-Dichloropropane	52.0700	5.0	0.46	50.0000		104	77 - 120			
1,3,5-Trimethylbenzene	57.3600	5.0	0.70	50.0000		115	80 - 123			
1,3-Dichlorobenzene	53.7400	5.0	0.36	50.0000		107	80 - 118			
1,3-Dichloropropane	51.3900	5.0	0.49	50.0000		103	80 - 114			
1,4-Dichlorobenzene	52.1700	5.0	0.27	50.0000		104	80 - 117			
2,2-Dichloropropane	43.3000	5.0	0.28	50.0000		86.6	66 - 133			
2-Chlorotoluene	53.5900	5.0	0.53	50.0000		107	79 - 117			
4-Chlorotoluene	54.5500	5.0	0.40	50.0000		109	80 - 117			
4-Isopropyltoluene	57.2200	5.0	0.81	50.0000		114	81 - 130			
Benzene	49.2700	5.0	0.36	50.0000		98.5	79 - 116			
Bromobenzene	52.5300	5.0	0.62	50.0000		105	76 - 113			
Bromochloromethane	50.7800	5.0	0.30	50.0000		102	74 - 113			
Bromodichloromethane	43.9600	5.0	0.52	50.0000		87.9	74 - 115			
Bromoform	49.5200	5.0	1.4	50.0000		99.0	70 - 118			
Bromomethane	44.8500	5.0	2.5	50.0000		89.7	41 - 170			
Carbon disulfide	43.4000	5.0	0.94	50.0000		86.8	53 - 139			
Carbon tetrachloride	41.2700	5.0	0.73	50.0000		82.5	71 - 131			
Chlorobenzene	50.2900	5.0	0.42	50.0000		101	83 - 114			
Chloroethane	47.5800	5.0	1.5	50.0000		95.2	61 - 165			
Chloroform	47.6100	5.0	0.24	50.0000		95.2	73 - 117			
Chloromethane	45.6500	5.0	1.1	50.0000		91.3	51 - 147			
cis-1,2-Dichloroethene	51.4100	5.0	0.20	50.0000		103	73 - 121			
cis-1,3-Dichloropropene	53.0100	5.0	0.39	50.0000		106	81 - 136			
Di-isopropyl ether	57.4100	5.0	1.9	50.0000		115	66 - 126			
Dibromochloromethane	47.5600	5.0	0.81	50.0000		95.1	77 - 114			
Dibromomethane	44.2300	5.0	0.23	50.0000		88.5	78 - 110			
Dichlorodifluoromethane	25.9400	5.0	0.14	50.0000		51.9	22 - 172			
Ethyl Acetate	575.420	50	7.0	500.000		115	48 - 147			
Ethyl Ether	460.680	50	17	500.000		92.1	40 - 155			
Ethyl tert-butyl ether	55.3300	5.0	0.85	50.0000		111	50 - 150			



## Certificate of Analysis

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Report To : Jorge Perez

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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0618 - MSVOA\_S (continued)**

**LCS (B0F0618-BS1) - Continued**

Prepared: 6/29/2020 Analyzed: 6/29/2020

Ethylbenzene	52.8800	5.0	0.43	50.0000		106	73 - 128			
Freon-113	38.2100	5.0	1.3	50.0000		76.4	60 - 144			
Hexachlorobutadiene	45.9700	5.0	0.40	50.0000		91.9	72 - 147			
Isopropylbenzene	55.8900	5.0	0.79	50.0000		112	79 - 134			
m,p-Xylene	107.240	10	0.98	100.000		107	79 - 128			
Methylene chloride	52.9700	5.0	2.2	50.0000		106	60 - 131			
MTBE	49.6900	5.0	0.81	50.0000		99.4	57 - 131			
n-Butylbenzene	55.0000	5.0	1.2	50.0000		110	82 - 134			
n-Propylbenzene	55.7300	5.0	0.78	50.0000		111	78 - 127			
Naphthalene	54.3800	5.0	1.1	50.0000		109	67 - 131			
o-Xylene	55.6900	5.0	0.67	50.0000		111	79 - 126			
sec-Butylbenzene	56.8700	5.0	0.63	50.0000		114	79 - 130			
Styrene	65.5200	5.0	0.45	50.0000		131	81 - 125			L5
tert-Amyl methyl ether	53.5300	5.0	1.1	50.0000		107	50 - 142			
tert-Butanol	243.650	100	11	250.000		97.5	0 - 168			
tert-Butylbenzene	56.9800	5.0	0.80	50.0000		114	80 - 126			
Tetrachloroethene	49.3900	5.0	0.31	50.0000		98.8	76 - 127			
Toluene	52.2200	5.0	0.27	50.0000		104	79 - 119			
trans-1,2-Dichloroethene	49.6100	5.0	0.56	50.0000		99.2	66 - 128			
trans-1,3-Dichloropropene	48.1000	5.0	0.59	50.0000		96.2	76 - 117			
Trichloroethene	50.6100	5.0	0.32	50.0000		101	81 - 120			
Trichlorofluoromethane	36.4600	5.0	1.0	50.0000		72.9	63 - 138			
Vinyl acetate	522.460	50	6.0	500.000		104	60 - 149			
Vinyl chloride	43.6100	5.0	0.92	50.0000		87.2	58 - 142			
<hr/>										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.71</i>			<i>50.0000</i>		<i>91.4</i>	<i>58 - 160</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.34</i>			<i>50.0000</i>		<i>105</i>	<i>72 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.30</i>			<i>50.0000</i>		<i>96.6</i>	<i>75 - 139</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.68</i>			<i>50.0000</i>		<i>103</i>	<i>84 - 115</i>			

**LCS Dup (B0F0618-BS1)**

Prepared: 6/29/2020 Analyzed: 6/29/2020

1,1,1,2-Tetrachloroethane	50.7700	5.0	0.52	50.0000		102	80 - 114	2.59	20	
1,1,1-Trichloroethane	44.4900	5.0	0.26	50.0000		89.0	71 - 127	1.98	20	
1,1,2,2-Tetrachloroethane	52.7300	5.0	0.21	50.0000		105	73 - 113	11.0	20	
1,1,2-Trichloroethane	51.0100	5.0	0.40	50.0000		102	78 - 112	3.21	20	
1,1-Dichloroethane	50.4300	5.0	1.4	50.0000		101	73 - 123	0.0991	20	
1,1-Dichloroethene	40.6800	5.0	1.9	50.0000		81.4	59 - 139	1.94	20	
1,1-Dichloropropene	50.1300	5.0	0.54	50.0000		100	78 - 131	0.159	20	
1,2,3-Trichloropropane	49.3600	5.0	0.40	50.0000		98.7	71 - 117	2.05	20	
1,2,3-Trichlorobenzene	51.8100	5.0	0.83	50.0000		104	68 - 134	8.47	20	
1,2,4-Trichlorobenzene	52.5200	5.0	0.80	50.0000		105	72 - 141	3.54	20	



## Certificate of Analysis

Wood PLC  
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Project Number : New Dock, CM20167740

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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0618 - MSVOA\_S (continued)**

**LCS Dup (B0F0618-BSD1) - Continued**

Prepared: 6/29/2020 Analyzed: 6/29/2020

1,2,4-Trimethylbenzene	54.3200	5.0	0.91	50.0000		109	81 - 122	5.76	20	
1,2-Dibromo-3-chloropropane	42.9700	10	1.1	50.0000		85.9	64 - 134	1.74	20	
1,2-Dibromoethane	47.2100	5.0	0.40	50.0000		94.4	78 - 113	3.50	20	
1,2-Dichlorobenzene	51.4400	5.0	0.21	50.0000		103	79 - 119	1.77	20	
1,2-Dichloroethane	43.0700	5.0	0.50	50.0000		86.1	62 - 126	0.878	20	
1,2-Dichloropropane	49.5200	5.0	0.46	50.0000		99.0	77 - 120	5.02	20	
1,3,5-Trimethylbenzene	54.9800	5.0	0.70	50.0000		110	80 - 123	4.24	20	
1,3-Dichlorobenzene	50.8900	5.0	0.36	50.0000		102	80 - 118	5.45	20	
1,3-Dichloropropane	51.4500	5.0	0.49	50.0000		103	80 - 114	0.117	20	
1,4-Dichlorobenzene	50.0300	5.0	0.27	50.0000		100	80 - 117	4.19	20	
2,2-Dichloropropane	42.6500	5.0	0.28	50.0000		85.3	66 - 133	1.51	20	
2-Chlorotoluene	51.3600	5.0	0.53	50.0000		103	79 - 117	4.25	20	
4-Chlorotoluene	52.2100	5.0	0.40	50.0000		104	80 - 117	4.38	20	
4-Isopropyltoluene	55.4300	5.0	0.81	50.0000		111	81 - 130	3.18	20	
Benzene	50.9100	5.0	0.36	50.0000		102	79 - 116	3.27	20	
Bromobenzene	51.4800	5.0	0.62	50.0000		103	76 - 113	2.02	20	
Bromochloromethane	51.8500	5.0	0.30	50.0000		104	74 - 113	2.09	20	
Bromodichloromethane	44.7800	5.0	0.52	50.0000		89.6	74 - 115	1.85	20	
Bromoform	50.0000	5.0	1.4	50.0000		100	70 - 118	0.965	20	
Bromomethane	41.2600	5.0	2.5	50.0000		82.5	41 - 170	8.34	20	
Carbon disulfide	43.8600	5.0	0.94	50.0000		87.7	53 - 139	1.05	20	
Carbon tetrachloride	40.8000	5.0	0.73	50.0000		81.6	71 - 131	1.15	20	
Chlorobenzene	50.7900	5.0	0.42	50.0000		102	83 - 114	0.989	20	
Chloroethane	48.3400	5.0	1.5	50.0000		96.7	61 - 165	1.58	20	
Chloroform	47.4800	5.0	0.24	50.0000		95.0	73 - 117	0.273	20	
Chloromethane	43.8100	5.0	1.1	50.0000		87.6	51 - 147	4.11	20	
cis-1,2-Dichloroethene	52.9300	5.0	0.20	50.0000		106	73 - 121	2.91	20	
cis-1,3-Dichloropropene	52.8100	5.0	0.39	50.0000		106	81 - 136	0.378	20	
Di-isopropyl ether	60.0400	5.0	1.9	50.0000		120	66 - 126	4.48	20	
Dibromochloromethane	48.8700	5.0	0.81	50.0000		97.7	77 - 114	2.72	20	
Dibromomethane	45.4600	5.0	0.23	50.0000		90.9	78 - 110	2.74	20	
Dichlorodifluoromethane	23.0200	5.0	0.14	50.0000		46.0	22 - 172	11.9	20	
Ethyl Acetate	573.330	50	7.0	500.000		115	48 - 147	0.364	20	
Ethyl Ether	455.870	50	17	500.000		91.2	40 - 155	1.05	20	
Ethyl tert-butyl ether	55.3000	5.0	0.85	50.0000		111	50 - 150	0.0542	20	
Ethylbenzene	54.1700	5.0	0.43	50.0000		108	73 - 128	2.41	20	
Freon-113	39.5500	5.0	1.3	50.0000		79.1	60 - 144	3.45	20	
Hexachlorobutadiene	44.2000	5.0	0.40	50.0000		88.4	72 - 147	3.93	20	
Isopropylbenzene	54.0400	5.0	0.79	50.0000		108	79 - 134	3.37	20	
m,p-Xylene	109.480	10	0.98	100.000		109	79 - 128	2.07	20	





## Certificate of Analysis

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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0F0618 - MSVOA_S (continued)</b>										
<b>LCS Dup (B0F0618-BSD1) - Continued</b>					Prepared: 6/29/2020 Analyzed: 6/29/2020					
Methylene chloride	52.7100	5.0	2.2	50.0000		105	60 - 131	0.492	20	
MTBE	51.3300	5.0	0.81	50.0000		103	57 - 131	3.25	20	
n-Butylbenzene	51.3300	5.0	1.2	50.0000		103	82 - 134	6.90	20	
n-Propylbenzene	52.8400	5.0	0.78	50.0000		106	78 - 127	5.32	20	
Naphthalene	52.7400	5.0	1.1	50.0000		105	67 - 131	3.06	20	
o-Xylene	56.7300	5.0	0.67	50.0000		113	79 - 126	1.85	20	
sec-Butylbenzene	53.8900	5.0	0.63	50.0000		108	79 - 130	5.38	20	
Styrene	66.8800	5.0	0.45	50.0000		134	81 - 125	2.05	20	L5
tert-Amyl methyl ether	54.1900	5.0	1.1	50.0000		108	50 - 142	1.23	20	
tert-Butanol	247.560	100	11	250.000		99.0	0 - 168	1.59	20	
tert-Butylbenzene	53.8900	5.0	0.80	50.0000		108	80 - 126	5.57	20	
Tetrachloroethene	49.8800	5.0	0.31	50.0000		99.8	76 - 127	0.987	20	
Toluene	53.5000	5.0	0.27	50.0000		107	79 - 119	2.42	20	
trans-1,2-Dichloroethene	50.8800	5.0	0.56	50.0000		102	66 - 128	2.53	20	
trans-1,3-Dichloropropene	50.1300	5.0	0.59	50.0000		100	76 - 117	4.13	20	
Trichloroethene	48.7500	5.0	0.32	50.0000		97.5	81 - 120	3.74	20	
Trichlorofluoromethane	35.3200	5.0	1.0	50.0000		70.6	63 - 138	3.18	20	
Vinyl acetate	507.140	50	6.0	500.000		101	60 - 149	2.98	20	
Vinyl chloride	42.6300	5.0	0.92	50.0000		85.3	58 - 142	2.27	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.34</i>			<i>50.0000</i>		<i>94.7</i>	<i>58 - 160</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.95</i>			<i>50.0000</i>		<i>106</i>	<i>72 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.80</i>			<i>50.0000</i>		<i>102</i>	<i>75 - 139</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.41</i>			<i>50.0000</i>		<i>107</i>	<i>84 - 115</i>			



## Certificate of Analysis

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Project Number : New Dock, CM20167740  
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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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#### Batch B0F0640 - MSVOA\_S

##### Blank (B0F0640-BLK1)

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,1,1,2-Tetrachloroethane	ND	5.0	0.52
1,1,1-Trichloroethane	ND	5.0	0.26
1,1,2,2-Tetrachloroethane	ND	5.0	0.21
1,1,2-Trichloroethane	ND	5.0	0.40
1,1-Dichloroethane	ND	5.0	1.4
1,1-Dichloroethene	ND	5.0	1.9
1,1-Dichloropropene	ND	5.0	0.54
1,2,3-Trichloropropane	ND	5.0	0.40
1,2,3-Trichlorobenzene	ND	5.0	0.83
1,2,4-Trichlorobenzene	ND	5.0	0.80
1,2,4-Trimethylbenzene	ND	5.0	0.91
1,2-Dibromo-3-chloropropane	ND	10	1.1
1,2-Dibromoethane	ND	5.0	0.40
1,2-Dichlorobenzene	ND	5.0	0.21
1,2-Dichloroethane	ND	5.0	0.50
1,2-Dichloropropane	ND	5.0	0.46
1,3,5-Trimethylbenzene	ND	5.0	0.70
1,3-Dichlorobenzene	ND	5.0	0.36
1,3-Dichloropropane	ND	5.0	0.49
1,4-Dichlorobenzene	ND	5.0	0.27
2,2-Dichloropropane	ND	5.0	0.28
2-Chlorotoluene	ND	5.0	0.53
4-Chlorotoluene	ND	5.0	0.40
4-Isopropyltoluene	ND	5.0	0.81
Benzene	ND	5.0	0.36
Bromobenzene	ND	5.0	0.62
Bromochloromethane	ND	5.0	0.30
Bromodichloromethane	ND	5.0	0.52
Bromoform	ND	5.0	1.4
Bromomethane	ND	5.0	2.5
Carbon disulfide	ND	5.0	0.94
Carbon tetrachloride	ND	5.0	0.73
Chlorobenzene	ND	5.0	0.42
Chloroethane	ND	5.0	1.5
Chloroform	ND	5.0	0.24
Chloromethane	ND	5.0	1.1
cis-1,2-Dichloroethene	ND	5.0	0.20
cis-1,3-Dichloropropene	ND	5.0	0.39
Di-isopropyl ether	ND	5.0	1.9
Dibromochloromethane	ND	5.0	0.81



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
Report To : Jorge Perez  
Reported : 07/15/2020

### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0640 - MSVOA\_S (continued)**

**Blank (B0F0640-BLK1) - Continued**

Prepared: 6/30/2020 Analyzed: 6/30/2020

Dibromomethane	ND	5.0	0.23					
Dichlorodifluoromethane	ND	5.0	0.14					
Ethyl Acetate	ND	50	7.0					
Ethyl Ether	ND	50	17					
Ethyl tert-butyl ether	ND	5.0	0.85					
Ethylbenzene	ND	5.0	0.43					
Freon-113	ND	5.0	1.3					
Hexachlorobutadiene	ND	5.0	0.40					
Isopropylbenzene	ND	5.0	0.79					
m,p-Xylene	ND	10	0.98					
Methylene chloride	ND	5.0	2.2					
MTBE	ND	5.0	0.81					
n-Butylbenzene	ND	5.0	1.2					
n-Propylbenzene	ND	5.0	0.78					
Naphthalene	ND	5.0	1.1					
o-Xylene	ND	5.0	0.67					
sec-Butylbenzene	ND	5.0	0.63					
Styrene	ND	5.0	0.45					
tert-Amyl methyl ether	ND	5.0	1.1					
tert-Butanol	ND	100	11					
tert-Butylbenzene	ND	5.0	0.80					
Tetrachloroethene	ND	5.0	0.31					
Toluene	ND	5.0	0.27					
trans-1,2-Dichloroethene	ND	5.0	0.56					
trans-1,3-Dichloropropene	ND	5.0	0.59					
Trichloroethene	ND	5.0	0.32					
Trichlorofluoromethane	ND	5.0	1.0					
Vinyl acetate	ND	50	6.0					
Vinyl chloride	ND	5.0	0.92					

<i>Surrogate: 1,2-Dichloroethane-d4</i>	61.60		50.0000	123	58 - 160
<i>Surrogate: 4-Bromofluorobenzene</i>	51.43		50.0000	103	72 - 121
<i>Surrogate: Dibromofluoromethane</i>	58.07		50.0000	116	75 - 139
<i>Surrogate: Toluene-d8</i>	55.30		50.0000	111	84 - 115

**LCS (B0F0640-BS1)**

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,1,1,2-Tetrachloroethane	54.2500	5.0	0.52	50.0000	108	80 - 114
1,1,1-Trichloroethane	54.7900	5.0	0.26	50.0000	110	71 - 127
1,1,2,2-Tetrachloroethane	48.5900	5.0	0.21	50.0000	97.2	73 - 113
1,1,2-Trichloroethane	51.1900	5.0	0.40	50.0000	102	78 - 112
1,1-Dichloroethane	53.2700	5.0	1.4	50.0000	107	73 - 123



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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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#### Batch B0F0640 - MSVOA\_S (continued)

#### LCS (B0F0640-BS1) - Continued

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,1-Dichloroethene	48.6200	5.0	1.9	50.0000		97.2	59 - 139			
1,1-Dichloropropene	54.5400	5.0	0.54	50.0000		109	78 - 131			
1,2,3-Trichloropropane	49.2600	5.0	0.40	50.0000		98.5	71 - 117			
1,2,3-Trichlorobenzene	53.6500	5.0	0.83	50.0000		107	68 - 134			
1,2,4-Trichlorobenzene	54.3400	5.0	0.80	50.0000		109	72 - 141			
1,2,4-Trimethylbenzene	56.9200	5.0	0.91	50.0000		114	81 - 122			
1,2-Dibromo-3-chloropropane	46.1200	10	1.1	50.0000		92.2	64 - 134			
1,2-Dibromoethane	49.4100	5.0	0.40	50.0000		98.8	78 - 113			
1,2-Dichlorobenzene	52.5100	5.0	0.21	50.0000		105	79 - 119			
1,2-Dichloroethane	49.4400	5.0	0.50	50.0000		98.9	62 - 126			
1,2-Dichloropropane	49.4000	5.0	0.46	50.0000		98.8	77 - 120			
1,3,5-Trimethylbenzene	57.5700	5.0	0.70	50.0000		115	80 - 123			
1,3-Dichlorobenzene	52.8400	5.0	0.36	50.0000		106	80 - 118			
1,3-Dichloropropane	49.6500	5.0	0.49	50.0000		99.3	80 - 114			
1,4-Dichlorobenzene	53.0600	5.0	0.27	50.0000		106	80 - 117			
2,2-Dichloropropane	53.0800	5.0	0.28	50.0000		106	66 - 133			
2-Chlorotoluene	53.1900	5.0	0.53	50.0000		106	79 - 117			
4-Chlorotoluene	54.5400	5.0	0.40	50.0000		109	80 - 117			
4-Isopropyltoluene	60.2500	5.0	0.81	50.0000		120	81 - 130			
Benzene	51.2400	5.0	0.36	50.0000		102	79 - 116			
Bromobenzene	49.4200	5.0	0.62	50.0000		98.8	76 - 113			
Bromochloromethane	51.7800	5.0	0.30	50.0000		104	74 - 113			
Bromodichloromethane	49.4100	5.0	0.52	50.0000		98.8	74 - 115			
Bromoform	52.1900	5.0	1.4	50.0000		104	70 - 118			
Bromomethane	63.1100	5.0	2.5	50.0000		126	41 - 170			
Carbon disulfide	52.2700	5.0	0.94	50.0000		105	53 - 139			
Carbon tetrachloride	51.4400	5.0	0.73	50.0000		103	71 - 131			
Chlorobenzene	52.7600	5.0	0.42	50.0000		106	83 - 114			
Chloroethane	53.6900	5.0	1.5	50.0000		107	61 - 165			
Chloroform	51.2400	5.0	0.24	50.0000		102	73 - 117			
Chloromethane	55.1700	5.0	1.1	50.0000		110	51 - 147			
cis-1,2-Dichloroethene	52.3400	5.0	0.20	50.0000		105	73 - 121			
cis-1,3-Dichloropropene	48.9800	5.0	0.39	50.0000		98.0	81 - 136			
Di-isopropyl ether	54.1000	5.0	1.9	50.0000		108	66 - 126			
Dibromochloromethane	51.9900	5.0	0.81	50.0000		104	77 - 114			
Dibromomethane	49.3700	5.0	0.23	50.0000		98.7	78 - 110			
Dichlorodifluoromethane	58.3100	5.0	0.14	50.0000		117	22 - 172			
Ethyl Acetate	534.050	50	7.0	500.000		107	48 - 147			
Ethyl Ether	500.010	50	17	500.000		100	40 - 155			
Ethyl tert-butyl ether	52.3300	5.0	0.85	50.0000		105	50 - 150			



# Certificate of Analysis

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Project Number : New Dock, CM20167740

Report To : Jorge Perez

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## Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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### Batch B0F0640 - MSVOA\_S (continued)

#### LCS (B0F0640-BS1) - Continued

Prepared: 6/30/2020 Analyzed: 6/30/2020

Ethylbenzene	58.0300	5.0	0.43	50.0000		116	73 - 128			
Freon-113	49.1400	5.0	1.3	50.0000		98.3	60 - 144			
Hexachlorobutadiene	51.9100	5.0	0.40	50.0000		104	72 - 147			
Isopropylbenzene	56.2900	5.0	0.79	50.0000		113	79 - 134			
m,p-Xylene	119.420	10	0.98	100.000		119	79 - 128			
Methylene chloride	52.1100	5.0	2.2	50.0000		104	60 - 131			
MTBE	50.7200	5.0	0.81	50.0000		101	57 - 131			
n-Butylbenzene	60.3600	5.0	1.2	50.0000		121	82 - 134			
n-Propylbenzene	57.5600	5.0	0.78	50.0000		115	78 - 127			
Naphthalene	46.9900	5.0	1.1	50.0000		94.0	67 - 131			
o-Xylene	59.0400	5.0	0.67	50.0000		118	79 - 126			
sec-Butylbenzene	58.5500	5.0	0.63	50.0000		117	79 - 130			
Styrene	58.0500	5.0	0.45	50.0000		116	81 - 125			
tert-Amyl methyl ether	49.1200	5.0	1.1	50.0000		98.2	50 - 142			
tert-Butanol	231.660	100	11	250.000		92.7	0 - 168			
tert-Butylbenzene	56.8200	5.0	0.80	50.0000		114	80 - 126			
Tetrachloroethene	54.1900	5.0	0.31	50.0000		108	76 - 127			
Toluene	54.0900	5.0	0.27	50.0000		108	79 - 119			
trans-1,2-Dichloroethene	50.3700	5.0	0.56	50.0000		101	66 - 128			
trans-1,3-Dichloropropene	49.6500	5.0	0.59	50.0000		99.3	76 - 117			
Trichloroethene	53.0800	5.0	0.32	50.0000		106	81 - 120			
Trichlorofluoromethane	54.5300	5.0	1.0	50.0000		109	63 - 138			
Vinyl acetate	588.890	50	6.0	500.000		118	60 - 149			
Vinyl chloride	55.6900	5.0	0.92	50.0000		111	58 - 142			

Surrogate: 1,2-Dichloroethane-d4 55.03 50.0000 110 58 - 160  
 Surrogate: 4-Bromofluorobenzene 55.19 50.0000 110 72 - 121  
 Surrogate: Dibromofluoromethane 53.49 50.0000 107 75 - 139  
 Surrogate: Toluene-d8 51.95 50.0000 104 84 - 115

#### LCS Dup (B0F0640-BS1)

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,1,1,2-Tetrachloroethane	51.7500	5.0	0.52	50.0000		104	80 - 114	4.72	20	
1,1,1-Trichloroethane	51.7400	5.0	0.26	50.0000		103	71 - 127	5.73	20	
1,1,2,2-Tetrachloroethane	52.7300	5.0	0.21	50.0000		105	73 - 113	8.17	20	
1,1,2-Trichloroethane	51.5100	5.0	0.40	50.0000		103	78 - 112	0.623	20	
1,1-Dichloroethane	50.5500	5.0	1.4	50.0000		101	73 - 123	5.24	20	
1,1-Dichloroethene	45.9300	5.0	1.9	50.0000		91.9	59 - 139	5.69	20	
1,1-Dichloropropene	54.1700	5.0	0.54	50.0000		108	78 - 131	0.681	20	
1,2,3-Trichloropropane	47.4900	5.0	0.40	50.0000		95.0	71 - 117	3.66	20	
1,2,3-Trichlorobenzene	53.1000	5.0	0.83	50.0000		106	68 - 134	1.03	20	
1,2,4-Trichlorobenzene	52.5700	5.0	0.80	50.0000		105	72 - 141	3.31	20	



## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
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Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0F0640 - MSVOA\_S (continued)**

**LCS Dup (B0F0640-BSD1) - Continued**

Prepared: 6/30/2020 Analyzed: 6/30/2020

1,2,4-Trimethylbenzene	57.5700	5.0	0.91	50.0000		115	81 - 122	1.14	20	
1,2-Dibromo-3-chloropropane	46.5400	10	1.1	50.0000		93.1	64 - 134	0.907	20	
1,2-Dibromoethane	51.6800	5.0	0.40	50.0000		103	78 - 113	4.49	20	
1,2-Dichlorobenzene	52.0500	5.0	0.21	50.0000		104	79 - 119	0.880	20	
1,2-Dichloroethane	49.2700	5.0	0.50	50.0000		98.5	62 - 126	0.344	20	
1,2-Dichloropropane	51.8100	5.0	0.46	50.0000		104	77 - 120	4.76	20	
1,3,5-Trimethylbenzene	58.1800	5.0	0.70	50.0000		116	80 - 123	1.05	20	
1,3-Dichlorobenzene	53.5400	5.0	0.36	50.0000		107	80 - 118	1.32	20	
1,3-Dichloropropane	51.4800	5.0	0.49	50.0000		103	80 - 114	3.62	20	
1,4-Dichlorobenzene	52.3600	5.0	0.27	50.0000		105	80 - 117	1.33	20	
2,2-Dichloropropane	49.4800	5.0	0.28	50.0000		99.0	66 - 133	7.02	20	
2-Chlorotoluene	51.9900	5.0	0.53	50.0000		104	79 - 117	2.28	20	
4-Chlorotoluene	54.4700	5.0	0.40	50.0000		109	80 - 117	0.128	20	
4-Isopropyltoluene	58.2700	5.0	0.81	50.0000		117	81 - 130	3.34	20	
Benzene	51.8600	5.0	0.36	50.0000		104	79 - 116	1.20	20	
Bromobenzene	49.0800	5.0	0.62	50.0000		98.2	76 - 113	0.690	20	
Bromochloromethane	48.9200	5.0	0.30	50.0000		97.8	74 - 113	5.68	20	
Bromodichloromethane	49.4100	5.0	0.52	50.0000		98.8	74 - 115	0.00	20	
Bromoform	50.3400	5.0	1.4	50.0000		101	70 - 118	3.61	20	
Bromomethane	54.4100	5.0	2.5	50.0000		109	41 - 170	14.8	20	
Carbon disulfide	51.3300	5.0	0.94	50.0000		103	53 - 139	1.81	20	
Carbon tetrachloride	50.1900	5.0	0.73	50.0000		100	71 - 131	2.46	20	
Chlorobenzene	53.6800	5.0	0.42	50.0000		107	83 - 114	1.73	20	
Chloroethane	49.9200	5.0	1.5	50.0000		99.8	61 - 165	7.28	20	
Chloroform	49.8300	5.0	0.24	50.0000		99.7	73 - 117	2.79	20	
Chloromethane	51.5500	5.0	1.1	50.0000		103	51 - 147	6.78	20	
cis-1,2-Dichloroethene	49.0300	5.0	0.20	50.0000		98.1	73 - 121	6.53	20	
cis-1,3-Dichloropropene	50.4100	5.0	0.39	50.0000		101	81 - 136	2.88	20	
Di-isopropyl ether	52.3300	5.0	1.9	50.0000		105	66 - 126	3.33	20	
Dibromochloromethane	48.2800	5.0	0.81	50.0000		96.6	77 - 114	7.40	20	
Dibromomethane	50.4000	5.0	0.23	50.0000		101	78 - 110	2.06	20	
Dichlorodifluoromethane	51.2600	5.0	0.14	50.0000		103	22 - 172	12.9	20	
Ethyl Acetate	524.380	50	7.0	500.000		105	48 - 147	1.83	20	
Ethyl Ether	485.910	50	17	500.000		97.2	40 - 155	2.86	20	
Ethyl tert-butyl ether	55.0000	5.0	0.85	50.0000		110	50 - 150	4.98	20	
Ethylbenzene	56.9700	5.0	0.43	50.0000		114	73 - 128	1.84	20	
Freon-113	47.7000	5.0	1.3	50.0000		95.4	60 - 144	2.97	20	
Hexachlorobutadiene	52.6000	5.0	0.40	50.0000		105	72 - 147	1.32	20	
Isopropylbenzene	54.7600	5.0	0.79	50.0000		110	79 - 134	2.76	20	
m,p-Xylene	117.090	10	0.98	100.000		117	79 - 128	1.97	20	



## Certificate of Analysis

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### Volatile Organic Compounds by EPA 5035 / EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B0F0640 - MSVOA_S (continued)</b>										
<b>LCS Dup (B0F0640-BSD1) - Continued</b>					Prepared: 6/30/2020 Analyzed: 6/30/2020					
Methylene chloride	51.5100	5.0	2.2	50.0000		103	60 - 131	1.16	20	
MTBE	49.8100	5.0	0.81	50.0000		99.6	57 - 131	1.81	20	
n-Butylbenzene	57.7400	5.0	1.2	50.0000		115	82 - 134	4.44	20	
n-Propylbenzene	56.3200	5.0	0.78	50.0000		113	78 - 127	2.18	20	
Naphthalene	47.7600	5.0	1.1	50.0000		95.5	67 - 131	1.63	20	
o-Xylene	58.9700	5.0	0.67	50.0000		118	79 - 126	0.119	20	
sec-Butylbenzene	58.6600	5.0	0.63	50.0000		117	79 - 130	0.188	20	
Styrene	57.6000	5.0	0.45	50.0000		115	81 - 125	0.778	20	
tert-Amyl methyl ether	52.4900	5.0	1.1	50.0000		105	50 - 142	6.63	20	
tert-Butanol	233.150	100	11	250.000		93.3	0 - 168	0.641	20	
tert-Butylbenzene	55.8300	5.0	0.80	50.0000		112	80 - 126	1.76	20	
Tetrachloroethene	53.0900	5.0	0.31	50.0000		106	76 - 127	2.05	20	
Toluene	56.6000	5.0	0.27	50.0000		113	79 - 119	4.54	20	
trans-1,2-Dichloroethene	50.8500	5.0	0.56	50.0000		102	66 - 128	0.948	20	
trans-1,3-Dichloropropene	51.9400	5.0	0.59	50.0000		104	76 - 117	4.51	20	
Trichloroethene	49.9800	5.0	0.32	50.0000		100	81 - 120	6.02	20	
Trichlorofluoromethane	51.4300	5.0	1.0	50.0000		103	63 - 138	5.85	20	
Vinyl acetate	561.550	50	6.0	500.000		112	60 - 149	4.75	20	
Vinyl chloride	54.0500	5.0	0.92	50.0000		108	58 - 142	2.99	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.97</i>			<i>50.0000</i>		<i>104</i>	<i>58 - 160</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>53.83</i>			<i>50.0000</i>		<i>108</i>	<i>72 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>52.31</i>			<i>50.0000</i>		<i>105</i>	<i>75 - 139</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.62</i>			<i>50.0000</i>		<i>107</i>	<i>84 - 115</i>			



## Certificate of Analysis

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### Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0G0164 - MSSEMI\_S**

**Blank (B0G0164-BLK1)**

Prepared: 7/9/2020 Analyzed: 7/13/2020

2-Methylnaphthalene	ND	5.0	0.60						
Acenaphthene	ND	5.0	0.41						
Acenaphthylene	ND	5.0	0.41						
Anthracene	ND	5.0	0.56						
Benzo(a)anthracene	ND	5.0	0.56						
Benzo(a)pyrene	ND	5.0	0.69						
Benzo(b)fluoranthene	ND	5.0	2.2						
Benzo(g,h,i)perylene	ND	5.0	0.80						
Benzo(k)fluoranthene	ND	5.0	0.70						
Chrysene	ND	5.0	0.61						
Dibenz(a,h)anthracene	ND	5.0	0.88						
Fluoranthene	ND	5.0	0.45						
Fluorene	ND	5.0	0.35						
Indeno(1,2,3-cd)pyrene	ND	5.0	0.82						
Naphthalene	ND	5.0	0.56						
Phenanthrene	ND	5.0	0.34						
Pyrene	ND	5.0	0.51						

<i>Surrogate: 1,2-Dichlorobenzene-d</i>	19.90			33.3333		59.7	12 - 125		
<i>Surrogate: 2-Fluorobiphenyl</i>	23.91			33.3333		71.7	14 - 139		
<i>Surrogate: Nitrobenzene-d5</i>	18.99			33.3333		57.0	8 - 155		
<i>Surrogate: 4-Terphenyl-d14</i>	25.71			33.3333		77.1	16 - 152		

**LCS (B0G0164-BS1)**

Prepared: 7/9/2020 Analyzed: 7/13/2020

2-Methylnaphthalene	23.3990	5.0	0.60	33.3333		70.2	39 - 92		
Acenaphthene	24.9077	5.0	0.41	33.3333		74.7	35 - 94		
Acenaphthylene	26.0187	5.0	0.41	33.3333		78.1	31 - 101		
Anthracene	25.9937	5.0	0.56	33.3333		78.0	37 - 95		
Benzo(a)anthracene	23.1197	5.0	0.56	33.3333		69.4	43 - 102		
Benzo(a)pyrene	23.9520	5.0	0.69	33.3333		71.9	38 - 95		
Benzo(b)fluoranthene	23.4377	5.0	2.2	33.3333		70.3	44 - 102		
Benzo(g,h,i)perylene	26.6627	5.0	0.80	33.3333		80.0	34 - 114		
Benzo(k)fluoranthene	25.0323	5.0	0.70	33.3333		75.1	34 - 110		
Chrysene	26.2830	5.0	0.61	33.3333		78.8	46 - 101		
Dibenz(a,h)anthracene	25.8663	5.0	0.88	33.3333		77.6	35 - 117		
Fluoranthene	27.1853	5.0	0.45	33.3333		81.6	46 - 107		
Fluorene	25.5783	5.0	0.35	33.3333		76.7	35 - 98		
Indeno(1,2,3-cd)pyrene	27.3963	5.0	0.82	33.3333		82.2	35 - 114		
Naphthalene	22.8370	5.0	0.56	33.3333		68.5	39 - 86		
Phenanthrene	25.9680	5.0	0.34	33.3333		77.9	43 - 98		
Pyrene	26.7513	5.0	0.51	33.3333		80.3	44 - 108		





## Certificate of Analysis

Wood PLC  
3560 Hyland Ave, Suite 100  
Costa Mesa, CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

### Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B0G0164 - MSSEMI\_S (continued)**

**LCS (B0G0164-BS1) - Continued**

Prepared: 7/9/2020 Analyzed: 7/13/2020

Surrogate: 1,2-Dichlorobenzene-d	22.07	33.3333	66.2	12 - 125
Surrogate: 2-Fluorobiphenyl	24.70	33.3333	74.1	14 - 139
Surrogate: Nitrobenzene-d5	21.97	33.3333	65.9	8 - 155
Surrogate: 4-Terphenyl-d14	23.63	33.3333	70.9	16 - 152

**Matrix Spike (B0G0164-MS1)**

Source: 2001528-11

Prepared: 7/9/2020 Analyzed: 7/13/2020

2-Methylnaphthalene	27.9400	100	12	33.3333	ND	83.8	43 - 120		
Acenaphthene	42.0333	100	8.1	33.3333	8.17333	102	52 - 113		
Acenaphthylene	35.1600	100	8.2	33.3333	ND	105	44 - 126		
Anthracene	35.7400	100	11	33.3333	ND	107	49 - 128		
Benzo(a)anthracene	40.9600	100	11	33.3333	43.5067	-7.64	32 - 158		M2
Benzo(a)pyrene	41.9067	100	14	33.3333	52.4800	-31.7	39 - 137		M2
Benzo(b)fluoranthene	44.8333	100	43	33.3333	51.3267	-19.5	52 - 132		M2
Benzo(g,h,i)perylene	65.1467	100	16	33.3333	56.9400	24.6	35 - 162		M2
Benzo(k)fluoranthene	39.7800	100	14	33.3333	30.6067	27.5	18 - 153		
Chrysene	42.1000	100	12	33.3333	54.1467	-36.1	25 - 160		M2
Dibenz(a,h)anthracene	43.7667	100	18	33.3333	ND	131	41 - 155		
Fluoranthene	47.2667	100	9.0	33.3333	57.4000	-30.4	5 - 185		M2
Fluorene	35.1067	100	7.0	33.3333	ND	105	28 - 135		
Indeno(1,2,3-cd)pyrene	49.0667	100	16	33.3333	37.1667	35.7	36 - 162		M2
Naphthalene	38.7200	100	11	33.3333	ND	116	41 - 113		M2
Phenanthrene	47.1867	100	6.8	33.3333	26.2267	62.9	35 - 143		
Pyrene	51.8333	100	10	33.3333	59.6000	-23.3	10 - 184		M2
Surrogate: 1,2-Dichlorobenzene-d	0.000			33.3333		NR	12 - 125		S4
Surrogate: 2-Fluorobiphenyl	0.000			33.3333		NR	14 - 139		S4
Surrogate: Nitrobenzene-d5	0.000			33.3333		NR	8 - 155		S4
Surrogate: 4-Terphenyl-d14	0.000			33.3333		NR	16 - 152		S4

**Matrix Spike Dup (B0G0164-MSD1)**

Source: 2001528-11

Prepared: 7/9/2020 Analyzed: 7/13/2020

2-Methylnaphthalene	29.4733	100	12	33.3333	ND	88.4	43 - 120	5.34	20
Acenaphthene	41.7333	100	8.1	33.3333	8.17333	101	52 - 113	0.716	20
Acenaphthylene	36.4800	100	8.2	33.3333	ND	109	44 - 126	3.69	20
Anthracene	29.7667	100	11	33.3333	ND	89.3	49 - 128	18.2	20
Benzo(a)anthracene	44.6467	100	11	33.3333	43.5067	3.42	32 - 158	8.61	20 M2
Benzo(a)pyrene	44.0133	100	14	33.3333	52.4800	-25.4	39 - 137	4.90	20 M2
Benzo(b)fluoranthene	46.0467	100	43	33.3333	51.3267	-15.8	52 - 132	2.67	20 M2
Benzo(g,h,i)perylene	64.0667	100	16	33.3333	56.9400	21.4	35 - 162	1.67	20 M2
Benzo(k)fluoranthene	39.9400	100	14	33.3333	30.6067	28.0	18 - 153	0.401	20
Chrysene	57.1600	100	12	33.3333	54.1467	9.04	25 - 160	30.3	20 M2
Dibenz(a,h)anthracene	44.9400	100	18	33.3333	ND	135	41 - 155	2.65	20
Fluoranthene	52.6800	100	9.0	33.3333	57.4000	-14.2	5 - 185	10.8	20 M2



## Certificate of Analysis

Wood PLC  
 3560 Hyland Ave, Suite 100  
 Costa Mesa , CA 92626

Project Number : New Dock, CM20167740  
 Report To : Jorge Perez  
 Reported : 07/15/2020

### Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Batch B0G0164 - MSSEMI_S (continued)</b>										
<b>Matrix Spike Dup (B0G0164-MSD1) - Continued</b>			<b>Source: 2001528-11</b>			<b>Prepared: 7/9/2020 Analyzed: 7/13/2020</b>				
Fluorene	33.5400	100	7.0	33.3333	ND	101	28 - 135	4.56	20	
Indeno(1,2,3-cd)pyrene	50.4333	100	16	33.3333	37.1667	39.8	36 - 162	2.75	20	
Naphthalene	40.6867	100	11	33.3333	ND	122	41 - 113	4.95	20	M2
Phenanthrene	46.6867	100	6.8	33.3333	26.2267	61.4	35 - 143	1.07	20	
Pyrene	55.6467	100	10	33.3333	59.6000	-11.9	10 - 184	7.10	20	M2
<i>Surrogate: 1,2-Dichlorobenzene-d</i>	<i>0.000</i>			<i>33.3333</i>			<i>NR</i>	<i>12 - 125</i>		<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.000</i>			<i>33.3333</i>			<i>NR</i>	<i>14 - 139</i>		<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.000</i>			<i>33.3333</i>			<i>NR</i>	<i>8 - 155</i>		<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0.000</i>			<i>33.3333</i>			<i>NR</i>	<i>16 - 152</i>		<i>S4</i>



## Certificate of Analysis

Wood PLC

3560 Hyland Ave, Suite 100

Costa Mesa , CA 92626

Project Number : New Dock, CM20167740

Report To : Jorge Perez

Reported : 07/15/2020

### Notes and Definitions

S5	Surrogate recovery was above laboratory acceptance limit. Sample reanalysis showed the same high recovery.
S4	Surrogate was diluted out.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
P1	Sample does not meet pH requirement for a preserved sample
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
L5	Laboratory Control Sample high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
L3	Laboratory control sample outside in-house established limits but within method criteria.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

#### Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

**PROJECT NAME:** Port of Los Angeles - New Dock

DATE: 6/16/2020

PAGE 1 OF 1

PROJECT NUMBER: CM201677 40

LABORATORY: Advanced Technology Laboratories

REPORTING REQUIREMENTS:

RESULTS TO: kim.holland@woodpic.com  
linda.conlan@woodpic.com

Lab Address: 3275 Walnut Ave. Signal Hill, CA 90755

ADDRESS: 3560 Hyland Avenue Costa Mesa, CA 92626

TURNAROUND TIME: 5-7 Business Days

Lab Contact: Erik Ovalle

Client Contact: Kim Holland-Chominsky / Linda Conlan

Geotracker Required: Yes

SAMPLE SHIPMENT METHOD: Pick up

Lab Phone #: (662) 989-4045 ext. 237

M (949) 574-7504 / (949) 574-7083

Site Specific Global ID No.:

/Logcode:

**SAMPLERS (SIGN & PRINT):**

Jorge Perez

**ANALYSES**

ADDITIONAL COMMENTS

DATE	TIME	SAMPLE ID	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	MS/MSD	No. of Containers	CONTAINER TYPE AND SIZE	ANALYSES	ADDITIONAL COMMENTS
6/12/2020	0740	QCTB-062620	W			2	VAPORS	VOCs 8260 B TPH 8015 (c4-c40) Title 22 Metals	
01	0350	ND-14-2.5	S			4	SCBS Kit SS Sieves		
02	0755	ND-14-5.5	S						
03	0855	ND-13-3.5	S						
04	0905	ND-13-6.5	S						
05	0945	ND-16-2	S						
06	0950	ND-16-5	S						
07	1020	ND-16-6	S						
08	1120	ND-15-2	S						
09	1145	ND-15-6.5	S						
10	1210	ND-15-16	W			5	SCBS Kit Plastic Sieve Vials Marker Vials Plastic 50's Kit 5's Sieve		
11	1240	ND-11-2.5	S			4			
12	1250	ND-11-2.5	S			4			
13	1250	ND-11-2.5	S			4			

RELINQUISHED BY:

DATE

RECEIVED BY:

DATE

SAMPLING COMMENTS:

SIGNATURE: Jorge Perez

DATE: 6/16

SIGNATURE: [Signature]

DATE: 6/26

PRINTED NAME: Jorge Perez

DATE: 6/16

PRINTED NAME: [Signature]

DATE: 6/26

COMPANY: WOOD

DATE: 6/16

COMPANY: [Signature]

DATE: 6/26

SIGNATURE: [Signature]

DATE: 6/26

SIGNATURE: [Signature]

DATE: 6/26

PRINTED NAME: Steven Hsu

DATE: 6/26

PRINTED NAME: [Signature]

DATE: 6/26

COMPANY: AIR

DATE: 6/26

COMPANY: [Signature]

DATE: 6/26

Data Package (circle one): Level II / Level III / Level IV

3560 Hyland Avenue  
Costa Mesa, CA 92626  
Tel 949.642.0245 Fax 949.642.4474



Chomelli Young Co. 2020 K45  
ATL

1.4

2001541

**PROJECT NAME:** Port of Los Angeles - New Dock

DATE: 6/24/2020 PAGE 2 OF

PROJECT NUMBER: CM201677440 LABORATORY: Advanced Technology Laboratories CLIENT: Wood Environment & Infrastructure Solutions REPORTING REQUIREMENTS:

RESULTS TO: kim.holland@woodpic.com linda.conlan@woodpic.com Lab Address: 3275 Walnut Ave. ADDRESS: 3560 Hyland Avenue

TURNAROUND TIME: 2-3 weeks per contract price. City Signal Hill, CA 90755 Costa Mesa, CA 92626

SAMPLE SHIPMENT METHOD: Lab Contact: Erik Ovalle Client Contact: Kim Holland-Chorninsky / Linda Conlan Geotracker Required: Yes

Pick up Lab Phone #: (562) 989-4045 ext. 237 D M (949) 574-7504 / (949) 574-7083 Site Specific Global ID No.: / Logcode: 4ND

**SAMPLERS (SIGN & PRINT):**

**ANALYSES**

*Jorge Perez*

DATE	TIME	SAMPLE ID	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	MS/MSD	No. of Containers	CONTAINER TYPE AND SIZE	ANALYSES	ADDITIONAL COMMENTS
6/24/2020	1315	ND-12-3	S			2	VOCs 8260B TPH 8015 (C4-C9)		
	1320	ND-12-6	S			1			
	1355	ND-3-2.5	S			1			
	1400	ND-3-3.5	S			1			
	1430	ND-3-16	W			1	VOCs Number Plastic		
	1445	QCEB-ND	M			1			
/									

RELINQUISHED BY: SIGNATURE: DATE: TIME: RECEIVED BY: SIGNATURE: DATE: TIME: SAMPLING COMMENTS:

PRINTED NAME: Jorge Perez 6/26 1510  
COMPANY: WOOD

PRINTED NAME: Steven Hsu 6/26 1510  
COMPANY: AT&T

PRINTED NAME: Steven Hsu 6/26 1545  
COMPANY: AT&T

*Chonell Young Case 1545 4/2*

Data Package (circle one): Level II / Level III / Level IV

3560 Hyland Avenue  
Costa Mesa, CA 92626  
Tel 949.642.0245 Fax 949.642.4474

**wood.**

**Work Orders:** 0F22041

**Report Date:** 7/02/2020

**Project:** 2001482

**Received Date:** 6/22/2020

**Turnaround Time:** Normal

**Phones:** (562) 989-4045

**Fax:** (562) 989-4040

**Attn:** Rahul Nair

**P.O. #:** SC14755

**Client:** Advanced Technology Laboratories  
3275 Walnut Street  
Signal Hill, CA 90755

**Billing Code:**

Dear Rahul Nair,

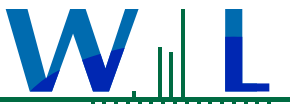
Enclosed are the results of analyses for samples received 6/22/20 with the Chain-of-Custody document. The samples were received in good condition, at 3.6 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

## Sample Results

Sample: 2001482-03 / VOC-01  
0F22041-01 (Water)

Sampled: 06/19/20 15:22 by Ryan Terwillger

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Method:</b> EPA 524.2	<b>Batch ID:</b> W0F1677	<b>Instr:</b> GCMS14	<b>Prepared:</b> 06/28/20 07:43	<b>Analyst:</b> cam		
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l	1	06/30/20	
1,1,1-Trichloroethane	ND	0.50	ug/l	1	06/30/20	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	1	06/30/20	
1,1,2-Trichloroethane	ND	0.50	ug/l	1	06/30/20	
1,1-Dichloroethane	ND	0.50	ug/l	1	06/30/20	
1,1-Dichloroethene	ND	0.50	ug/l	1	06/30/20	
1,1-Dichloropropene	ND	0.50	ug/l	1	06/30/20	
1,2,3-Trichlorobenzene	ND	0.50	ug/l	1	06/30/20	
1,2,4-Trichlorobenzene	ND	0.50	ug/l	1	06/30/20	
1,2,4-Trimethylbenzene	ND	0.50	ug/l	1	06/30/20	
1,2-Dichloroethane	ND	0.50	ug/l	1	06/30/20	
1,2-Dichloropropane	ND	0.50	ug/l	1	06/30/20	
1,3,5-Trimethylbenzene	ND	0.50	ug/l	1	06/30/20	
1,3-Dichloropropane	ND	0.50	ug/l	1	06/30/20	
1,3-Dichloropropene, Total	ND	0.50	ug/l	1	06/30/20	
2,2-Dichloropropane	ND	0.50	ug/l	1	06/30/20	
2-Butanone	ND	5.0	ug/l	1	06/30/20	
2-Chlorotoluene	ND	0.50	ug/l	1	06/30/20	
2-Hexanone	ND	5.0	ug/l	1	06/30/20	
4-Chlorotoluene	ND	0.50	ug/l	1	06/30/20	



WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT

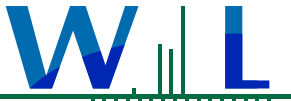
## Sample Results

(Continued)

Sample: 2001482-03 / VOC-01  
0F22041-01 (Water)

Sampled: 06/19/20 15:22 by Ryan Terwillger  
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Method:</b> EPA 524.2 (Continued)	<b>Batch ID:</b> W0F1677	<b>Instr:</b> GCMS14	<b>Prepared:</b> 06/28/20 07:43		<b>Analyst:</b> cam	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	06/30/20	
Benzene	ND	0.50	ug/l	1	06/30/20	
Bromobenzene	ND	0.50	ug/l	1	06/30/20	
Bromochloromethane	ND	0.50	ug/l	1	06/30/20	
<b>Bromodichloromethane</b>	<b>1.6</b>	0.50	ug/l	1	06/30/20	
Bromoform	ND	0.50	ug/l	1	06/30/20	
Bromomethane	ND	0.50	ug/l	1	06/30/20	
Carbon tetrachloride	ND	0.50	ug/l	1	06/30/20	
Chlorobenzene	ND	0.50	ug/l	1	06/30/20	
Chloroethane	ND	0.50	ug/l	1	06/30/20	
<b>Chloroform</b>	<b>38</b>	0.50	ug/l	1	06/30/20	
Chloromethane	ND	0.50	ug/l	1	06/30/20	
cis-1,2-Dichloroethene	ND	0.50	ug/l	1	06/30/20	
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	06/30/20	
Dibromochloromethane	ND	0.50	ug/l	1	06/30/20	
Dibromomethane	ND	0.50	ug/l	1	06/30/20	
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l	1	06/30/20	
Di-isopropyl ether	ND	2.0	ug/l	1	06/30/20	
Ethyl tert-butyl ether	ND	2.0	ug/l	1	06/30/20	
Ethylbenzene	ND	0.50	ug/l	1	06/30/20	
Freon 113	ND	5.0	ug/l	1	06/30/20	
Hexachlorobutadiene	ND	0.50	ug/l	1	06/30/20	
Isopropylbenzene	ND	0.50	ug/l	1	06/30/20	
m,p-Xylene	ND	0.50	ug/l	1	06/30/20	
m-Dichlorobenzene	ND	0.50	ug/l	1	06/30/20	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l	1	06/30/20	
Methylene chloride	ND	0.50	ug/l	1	06/30/20	
Naphthalene	ND	0.50	ug/l	1	06/30/20	
n-Butylbenzene	ND	0.50	ug/l	1	06/30/20	
n-Propylbenzene	ND	0.50	ug/l	1	06/30/20	
o-Dichlorobenzene	ND	0.50	ug/l	1	06/30/20	
o-Xylene	ND	0.50	ug/l	1	06/30/20	
p-Dichlorobenzene	ND	0.50	ug/l	1	06/30/20	
p-Isopropyltoluene	ND	0.50	ug/l	1	06/30/20	
sec-Butylbenzene	ND	0.50	ug/l	1	06/30/20	
Styrene	ND	0.50	ug/l	1	06/30/20	
Tert-amyl methyl ether	ND	2.0	ug/l	1	06/30/20	
tert-Butylbenzene	ND	0.50	ug/l	1	06/30/20	
Tetrachloroethene	ND	0.50	ug/l	1	06/30/20	
<b>THMs, Total</b>	<b>40</b>	0.50	ug/l	1	06/30/20	



WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT

## Sample Results

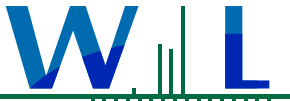
(Continued)

Sample: 2001482-03 / VOC-01  
0F22041-01 (Water)

Sampled: 06/19/20 15:22 by Ryan Terwillger  
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Method:</b> EPA 524.2 (Continued)	<b>Batch ID:</b> W0F1677	<b>Instr:</b> GCMS14	<b>Prepared:</b> 06/28/20 07:43		<b>Analyst:</b> cam	
Toluene	ND	0.50	ug/l	1	06/30/20	
trans-1,2-Dichloroethene	ND	0.50	ug/l	1	06/30/20	
trans-1,3-Dichloropropene	ND	0.50	ug/l	1	06/30/20	
Trichloroethene	ND	0.50	ug/l	1	06/30/20	
Trichlorofluoromethane	ND	0.50	ug/l	1	06/30/20	
Vinyl chloride	ND	0.50	ug/l	1	06/30/20	
Xylenes, Total	ND	0.50	ug/l	1	06/30/20	
<i>Surrogate(s)</i>						
1,2-Dichlorobenzene-d4	93%	70-130	Conc: 9.34		06/30/20	
4-Bromofluorobenzene	89%	70-130	Conc: 8.87		06/30/20	





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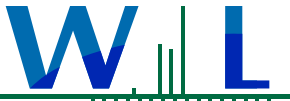
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FINAL REPORT

## Quality Control Results

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
Batch: WOF1677 - EPA 524.2 P&T										
Blank (WOF1677-BLK1)				Prepared: 06/28/20 Analyzed: 06/29/20						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
1,1-Dichloropropene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	0.50	ug/l							
1,2,4-Trichlorobenzene	ND	0.50	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropene, Total	ND	0.50	ug/l							
2,2-Dichloropropane	ND	0.50	ug/l							
2-Butanone	ND	5.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
2-Hexanone	ND	5.0	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
4-Methyl-2-pentanone	ND	5.0	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	0.50	ug/l							
Bromomethane	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	0.50	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l							
Di-isopropyl ether	ND	2.0	ug/l							
Ethyl tert-butyl ether	ND	2.0	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Freon 113	ND	5.0	ug/l							
Hexachlorobutadiene	ND	0.50	ug/l							



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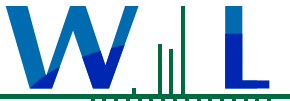
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## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: WOF1677 - EPA 524.2 P&amp;T (Continued)</b>										
<b>Blank (WOF1677-BLK1)</b>				<b>Prepared: 06/28/20 Analyzed: 06/29/20</b>						
Isopropylbenzene	ND	0.50	ug/l							
m,p-Xylene	ND	0.50	ug/l							
m-Dichlorobenzene	ND	0.50	ug/l							
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l							
Methylene chloride	ND	0.50	ug/l							
Naphthalene	ND	0.50	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
o-Dichlorobenzene	ND	0.50	ug/l							
o-Xylene	ND	0.50	ug/l							
p-Dichlorobenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
Tert-amyl methyl ether	ND	2.0	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
THMs, Total	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	0.50	ug/l							
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	9.10		ug/l	10.0		91	70-130			
4-Bromofluorobenzene	8.96		ug/l	10.0		90	70-130			
<b>LCS (WOF1677-BS1)</b>				<b>Prepared: 06/28/20 Analyzed: 06/29/20</b>						
1,1,1,2-Tetrachloroethane	5.21	0.50	ug/l	5.00		104	70-130			
1,1,1-Trichloroethane	4.89	0.50	ug/l	5.00		98	70-130			
1,1,2,2-Tetrachloroethane	5.02	0.50	ug/l	5.00		100	70-130			
1,1,2-Trichloroethane	4.99	0.50	ug/l	5.00		100	70-130			
1,1-Dichloroethane	4.95	0.50	ug/l	5.00		99	70-130			
1,1-Dichloroethene	4.29	0.50	ug/l	5.00		86	70-130			
1,1-Dichloropropene	4.77	0.50	ug/l	5.00		95	70-130			
1,2,3-Trichlorobenzene	4.72	0.50	ug/l	5.00		94	70-130			
1,2,4-Trichlorobenzene	4.60	0.50	ug/l	5.00		92	70-130			
1,2,4-Trimethylbenzene	5.09	0.50	ug/l	5.00		102	70-130			
1,2-Dichloroethane	5.01	0.50	ug/l	5.00		100	70-130			
1,2-Dichloropropane	4.69	0.50	ug/l	5.00		94	70-130			
1,3,5-Trimethylbenzene	5.17	0.50	ug/l	5.00		103	70-130			
1,3-Dichloropropane	4.93	0.50	ug/l	5.00		99	70-130			



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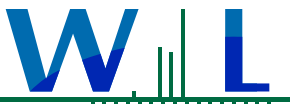
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## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: WOF1677 - EPA 524.2 P&T (Continued)										
LCS (WOF1677-BS1)				Prepared: 06/28/20 Analyzed: 06/29/20						
2,2-Dichloropropane	4.73	0.50	ug/l	5.00		95	70-130			
2-Butanone	5.47	5.0	ug/l	5.00		109	70-130			
2-Chlorotoluene	4.74	0.50	ug/l	5.00		95	70-130			
2-Hexanone	4.44	5.0	ug/l	5.00		89	70-130			
4-Chlorotoluene	4.82	0.50	ug/l	5.00		96	70-130			
4-Methyl-2-pentanone	4.79	5.0	ug/l	5.00		96	70-130			
Benzene	4.77	0.50	ug/l	5.00		95	70-130			
Bromobenzene	4.71	0.50	ug/l	5.00		94	70-130			
Bromochloromethane	5.15	0.50	ug/l	5.00		103	70-130			
Bromodichloromethane	5.19	0.50	ug/l	5.00		104	70-130			
Bromoform	5.24	0.50	ug/l	5.00		105	70-130			
Bromomethane	4.50	0.50	ug/l	5.00		90	70-130			
Carbon tetrachloride	5.06	0.50	ug/l	5.00		101	70-130			
Chlorobenzene	4.68	0.50	ug/l	5.00		94	70-130			
Chloroethane	5.49	0.50	ug/l	5.00		110	70-130			
Chloroform	4.85	0.50	ug/l	5.00		97	70-130			
Chloromethane	4.55	0.50	ug/l	5.00		91	70-130			
cis-1,2-Dichloroethene	4.68	0.50	ug/l	5.00		94	70-130			
cis-1,3-Dichloropropene	4.79	0.50	ug/l	5.00		96	70-130			
Dibromochloromethane	4.79	0.50	ug/l	5.00		96	70-130			
Dibromomethane	5.16	0.50	ug/l	5.00		103	70-130			
Dichlorodifluoromethane (Freon 12)	4.12	0.50	ug/l	5.00		82	70-130			
Di-isopropyl ether	20.3	2.0	ug/l	20.0		102	70-130			
Ethyl tert-butyl ether	20.8	2.0	ug/l	20.0		104	70-130			
Ethylbenzene	5.14	0.50	ug/l	5.00		103	70-130			
Freon 113	4.78	5.0	ug/l	5.00		96	70-130			
Hexachlorobutadiene	4.72	0.50	ug/l	5.00		94	70-130			
Isopropylbenzene	5.08	0.50	ug/l	5.00		102	70-130			
m,p-Xylene	5.05	0.50	ug/l	5.00		101	70-130			
m-Dichlorobenzene	4.70	0.50	ug/l	5.00		94	70-130			
Methyl tert-butyl ether (MTBE)	20.8	2.0	ug/l	20.0		104	70-130			
Methylene chloride	4.84	0.50	ug/l	5.00		97	70-130			
Naphthalene	4.66	0.50	ug/l	5.00		93	70-130			
n-Butylbenzene	5.09	0.50	ug/l	5.00		102	70-130			
n-Propylbenzene	5.07	0.50	ug/l	5.00		101	70-130			
o-Dichlorobenzene	4.76	0.50	ug/l	5.00		95	70-130			
o-Xylene	5.05	0.50	ug/l	5.00		101	70-130			
p-Dichlorobenzene	4.71	0.50	ug/l	5.00		94	70-130			
p-Isopropyltoluene	5.03	0.50	ug/l	5.00		101	70-130			
sec-Butylbenzene	5.13	0.50	ug/l	5.00		103	70-130			
Styrene	5.30	0.50	ug/l	5.00		106	70-130			
Tert-amyl methyl ether	21.2	2.0	ug/l	20.0		106	70-130			



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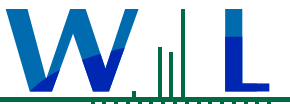
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## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: WOF1677 - EPA 524.2 P&amp;T (Continued)</b>										
<b>LCS (WOF1677-BS1)</b>				<b>Prepared: 06/28/20 Analyzed: 06/29/20</b>						
tert-Butylbenzene	5.23	0.50	ug/l	5.00		105	70-130			
Tetrachloroethene	4.87	0.50	ug/l	5.00		97	70-130			
Toluene	4.94	0.50	ug/l	5.00		99	70-130			
trans-1,2-Dichloroethene	4.39	0.50	ug/l	5.00		88	70-130			
trans-1,3-Dichloropropene	4.81	0.50	ug/l	5.00		96	70-130			
Trichloroethene	4.82	0.50	ug/l	5.00		96	70-130			
Trichlorofluoromethane	5.10	0.50	ug/l	5.00		102	70-130			
Vinyl chloride	4.91	0.50	ug/l	5.00		98	70-130			
<i>Surrogate(s)</i>										
1,2-Dichlorobenzene-d4	9.64		ug/l	10.0		96	70-130			
4-Bromofluorobenzene	9.40		ug/l	10.0		94	70-130			
<b>LCS Dup (WOF1677-BSD1)</b>				<b>Prepared: 06/28/20 Analyzed: 06/29/20</b>						
1,1,1,2-Tetrachloroethane	4.92	0.50	ug/l	5.00		98	70-130	6	30	
1,1,1-Trichloroethane	4.70	0.50	ug/l	5.00		94	70-130	4	30	
1,1,2,2-Tetrachloroethane	4.70	0.50	ug/l	5.00		94	70-130	6	30	
1,1,2-Trichloroethane	4.73	0.50	ug/l	5.00		95	70-130	5	30	
1,1-Dichloroethane	4.58	0.50	ug/l	5.00		92	70-130	8	30	
1,1-Dichloroethene	4.09	0.50	ug/l	5.00		82	70-130	5	30	
1,1-Dichloropropene	4.55	0.50	ug/l	5.00		91	70-130	5	30	
1,2,3-Trichlorobenzene	5.17	0.50	ug/l	5.00		103	70-130	9	30	
1,2,4-Trichlorobenzene	4.75	0.50	ug/l	5.00		95	70-130	3	30	
1,2,4-Trimethylbenzene	4.80	0.50	ug/l	5.00		96	70-130	6	30	
1,2-Dichloroethane	4.70	0.50	ug/l	5.00		94	70-130	7	30	
1,2-Dichloropropane	4.44	0.50	ug/l	5.00		89	70-130	6	30	
1,3,5-Trimethylbenzene	4.88	0.50	ug/l	5.00		98	70-130	6	30	
1,3-Dichloropropane	4.71	0.50	ug/l	5.00		94	70-130	5	30	
2,2-Dichloropropane	4.51	0.50	ug/l	5.00		90	70-130	5	30	
2-Butanone	5.22	5.0	ug/l	5.00		104	70-130	5	30	
2-Chlorotoluene	4.42	0.50	ug/l	5.00		88	70-130	7	30	
2-Hexanone	4.30	5.0	ug/l	5.00		86	70-130	3	30	
4-Chlorotoluene	4.59	0.50	ug/l	5.00		92	70-130	5	30	
4-Methyl-2-pentanone	4.47	5.0	ug/l	5.00		89	70-130	7	30	
Benzene	4.49	0.50	ug/l	5.00		90	70-130	6	30	
Bromobenzene	4.44	0.50	ug/l	5.00		89	70-130	6	30	
Bromochloromethane	4.89	0.50	ug/l	5.00		98	70-130	5	30	
Bromodichloromethane	4.93	0.50	ug/l	5.00		99	70-130	5	30	
Bromoform	4.78	0.50	ug/l	5.00		96	70-130	9	30	
Bromomethane	4.47	0.50	ug/l	5.00		89	70-130	0.6	30	
Carbon tetrachloride	4.72	0.50	ug/l	5.00		94	70-130	7	30	
Chlorobenzene	4.48	0.50	ug/l	5.00		90	70-130	4	30	
Chloroethane	5.20	0.50	ug/l	5.00		104	70-130	5	30	
Chloroform	4.60	0.50	ug/l	5.00		92	70-130	5	30	
Chloromethane	4.05	0.50	ug/l	5.00		81	70-130	12	30	



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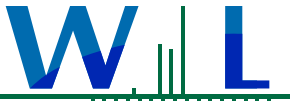
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## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: WOF1677 - EPA 524.2 P&T (Continued)										
LCS Dup (WOF1677-BSD1)				Prepared: 06/28/20 Analyzed: 06/29/20						
cis-1,2-Dichloroethene	4.45	0.50	ug/l	5.00		89	70-130	5	30	
cis-1,3-Dichloropropene	4.54	0.50	ug/l	5.00		91	70-130	5	30	
Dibromochloromethane	4.66	0.50	ug/l	5.00		93	70-130	3	30	
Dibromomethane	4.79	0.50	ug/l	5.00		96	70-130	7	30	
Dichlorodifluoromethane (Freon 12)	3.95	0.50	ug/l	5.00		79	70-130	4	30	
Di-isopropyl ether	19.6	2.0	ug/l	20.0		98	70-130	4	30	
Ethyl tert-butyl ether	20.0	2.0	ug/l	20.0		100	70-130	4	30	
Ethylbenzene	4.80	0.50	ug/l	5.00		96	70-130	7	30	
Freon 113	4.57	5.0	ug/l	5.00		91	70-130	5	30	
Hexachlorobutadiene	4.60	0.50	ug/l	5.00		92	70-130	3	30	
Isopropylbenzene	4.76	0.50	ug/l	5.00		95	70-130	7	30	
m,p-Xylene	4.78	0.50	ug/l	5.00		96	70-130	6	30	
m-Dichlorobenzene	4.43	0.50	ug/l	5.00		89	70-130	6	30	
Methyl tert-butyl ether (MTBE)	20.0	2.0	ug/l	20.0		100	70-130	4	30	
Methylene chloride	4.63	0.50	ug/l	5.00		93	70-130	4	30	
Naphthalene	5.02	0.50	ug/l	5.00		100	70-130	7	30	
n-Butylbenzene	4.81	0.50	ug/l	5.00		96	70-130	6	30	
n-Propylbenzene	4.74	0.50	ug/l	5.00		95	70-130	7	30	
o-Dichlorobenzene	4.47	0.50	ug/l	5.00		89	70-130	6	30	
o-Xylene	4.75	0.50	ug/l	5.00		95	70-130	6	30	
p-Dichlorobenzene	4.39	0.50	ug/l	5.00		88	70-130	7	30	
p-Isopropyltoluene	4.77	0.50	ug/l	5.00		95	70-130	5	30	
sec-Butylbenzene	4.79	0.50	ug/l	5.00		96	70-130	7	30	
Styrene	5.01	0.50	ug/l	5.00		100	70-130	6	30	
Tert-amyl methyl ether	20.3	2.0	ug/l	20.0		102	70-130	4	30	
tert-Butylbenzene	4.85	0.50	ug/l	5.00		97	70-130	8	30	
Tetrachloroethene	4.58	0.50	ug/l	5.00		92	70-130	6	30	
Toluene	4.65	0.50	ug/l	5.00		93	70-130	6	30	
trans-1,2-Dichloroethene	4.17	0.50	ug/l	5.00		83	70-130	5	30	
trans-1,3-Dichloropropene	4.55	0.50	ug/l	5.00		91	70-130	5	30	
Trichloroethene	4.51	0.50	ug/l	5.00		90	70-130	7	30	
Trichlorofluoromethane	4.77	0.50	ug/l	5.00		95	70-130	7	30	
Vinyl chloride	4.57	0.50	ug/l	5.00		91	70-130	7	30	
Surrogate(s)										
1,2-Dichlorobenzene-d4	9.63		ug/l	10.0		96	70-130			
4-Bromofluorobenzene	9.31		ug/l	10.0		93	70-130			



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## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

### Reviewed by:

Regina M. Giancola  
Project Manager



ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 •  
NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

## **Appendix D**

### **Summary of Quality Assurance/Quality Control Data Review**

## Appendix D

Wood Environment & Infrastructure Solutions, Inc. (Wood) and the analytical laboratory followed specific quality assurance/quality control (QA/QC) procedures to evaluate analytical data generated from samples. These procedures included the collection and analysis of field and laboratory blank samples, field and laboratory duplicates, and laboratory spike samples.

Temperature blanks accompanied samples to the analytical laboratory. The QA/QC samples included trip blanks, equipment blanks, one field duplicate sample, laboratory method blanks, laboratory control samples/laboratory control sample duplicates (LCS/LCSD), and matrix spike/matrix spike duplicate (MS/MSD) samples that were collected/prepared and analyzed to assess the potential effects of field sampling conditions, storage and transportation of samples, and laboratory conditions and analysis. Data accuracy was assessed based on percent recoveries (%R) from spiked samples, expressed as a percent of the true or known concentration of the assessed constituent. Data precision was estimated by comparing analytical results from duplicate samples and calculating the relative percent difference (RPD) of the two results.

Data from the QA/QC samples were evaluated to assess precision, accuracy, completeness, and data usability. The QA/QC review was performed in general accordance with U.S. EPA National Functional Guidelines<sup>1,2</sup> and a summary of the results is presented below. The laboratory reported that the sample shipments were received at temperatures within the acceptable range. The soil, groundwater and QA/QC samples obtained from sampling were analyzed within the method holding times and the requested analyses were performed by the analytical laboratory.

### Accuracy

Accuracy was assessed through blank samples and spike and surrogate recoveries.

### Blanks

The sampling QA/QC program included the analysis of laboratory-provided trip blanks and an equipment blank collected from the cleaned drilling shoe (QCTB-062520, QCTB-062620, QCEB-ND), and laboratory method blanks corresponding to each analytical batch of samples. No analytes were detected in the blank samples analyzed during the sampling event with the following exception:

- C13-C40 (0.11 mg/L) and C23-C40 (0.08 mg/L) were detected above reporting limit (0.05 mg/L) in the equipment blank sample (QCEB-ND). The equipment blank sample was associated with all soil samples. TPH analytes were detected above reporting limits in all associated samples at concentrations ranging from 40 to 7200 mg/kg. Although concentrations are in different units (equipment blank and soil samples), detections in soil samples appear to be in greater in magnitude than in equipment blank sample. Data qualification was not necessary.

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1 U.S. EPA, 2017, U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, OLEM 9355.0-136, EPA-540-R-2017-002, January.

2 U.S. EPA, 2017, U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, OLEM 9355.0-135, EPA-540-R-2017-001, January.



### **Spike Recoveries in LCS/LCSD Samples**

Spike recoveries (%Rs) were within laboratory control limits in LCS/LCSD samples analyzed by the laboratory for the sampling event with the exception of the following:

- LCS and/or LCSD %Rs for 1,1,2,2-PCA, 1,1,2-TCA, 1,2-Dibromoethane, ethyl acetate, hexabutadiene, vinyl acetate, 1,2,3-trichloropropane, 1,2,3-trichlorobenzene, 1,2-dibromo-3-chloropropane, dibromochloromethane, and naphthalene for batch B0G0003 were above QC limits. The RPD calculated for 1,2-dibromo-3-chloropropane was also above QC limit. The QC batch is associated with all groundwater samples, but not for listed analytes. Data qualification was not necessary.
- LCS and LCSD %Rs of styrene for batch B0F0618 were above QC limits. The QC batch is associated with samples ND-14-2.5, ND-14-5.5, ND-13-3.5, ND-13-6.5, ND-16-2, ND-16-5, ND-15-2, ND-11-2.5, ND-11-5.5, and ND-12-3. Styrene was not detected above reporting limits in associated samples and therefore data qualification was not necessary.
- RPDs calculated from LCS and LCSD for 1,2-Dibromo-3-chloropropane and tert-butynol for batch B0F0579 were above QC limits. Associated samples are ND-4-12, ND-DUP, ND-6-15, and QCTB-062220. The listed analytes were not detected in associated samples and therefore data qualification was not necessary.
- LCS and LCSD %Rs of styrene were above QC limits for analysis batches B0F0588 and B0F0617. LCS and/or LCSD %Rs for trans-1,3-dichloropropene and 1,1,2-TCA were also above QC limits. Associated samples are ND-4-2.5, ND-4-5, ND-5-2.5, ND-5-5, ND-6-2.5, ND-6-5.5, ND-7-2.5, ND-7-5.5, ND-8-3, ND-8-6, ND-9-2.5, ND-9-5.5, ND-10-2, ND-10-5.5, ND-1-2.5, ND-1-5.5, ND-2-2.5, and ND-2-5.5. The listed analytes were not detected in associated samples and therefore data qualification was not necessary.
- RPD calculated from the LCS and LCSD of selenium for batch B0F0645 was above lab QC limits. Associated samples are ND-4-12, ND-DUP, and ND-6-15. Selenium was detected in samples ND-4-12 and ND-6-15, and results were given a J qualifier. Selenium was not detected above the reporting limit in sample ND-DUP; therefore, no qualifier was necessary.

### **Spike Recoveries in MS/MSD Samples**

Results were evaluated for MS/MSD samples that were prepared using project samples collected during the sampling event. %Rs were within laboratory control limits in associated MS/MSD samples analyzed by the laboratory with the following exceptions:

- MS and MSD %Rs of DRO were above QC limits for batch B0F0660. Non-project sample was used for the MS/MSD analysis, and source concentration was greater than four times the spike concentration therefore data qualification was not necessary.
- MSD %R for ethyl acetate was above QC limits. Associated samples are ND-4-12, ND-DUP, ND-6-15, and QCTB-062220. The listed analytes were not detected in associated samples and therefore data qualification was not necessary.
- The MS and MSD %Rs of TPH were above QC limits for batch B0F0641. MS/MSD analysis was performed on ND-4-2.5. Source concentration was greater than four times the spike concentration and therefore data qualification was not necessary.
- Both MS and MSD %Rs for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, fluoranthene, ideno(1,2,3-cd)pyrene, and pyrene were below lab QC limits for batch B0G0164. MS/MSD analysis was performed on sample ND-7-2.5. Associated samples

are ND-3-2.5, ND-4-2.5, ND-7-2.5, ND-8-3, ND-11-5.5, ND-13-3.5, ND-15-2, and ND-16-2. PAH analytes were not detected above reporting limits in associated samples and were qualified with UJ flags.

- RPD calculated from the MS and MSD of chrysene for batch B0G0164 was above lab QC limits. Associated samples are ND-3-2.5, ND-4-2.5, ND-7-2.5, ND-8-3, ND-11-5.5, ND-13-3.5, ND-15-2, and ND-16-2. Chrysene was not detected above reporting limits in associated samples. Data qualification was not necessary.
- The MS and MSD %Rs of barium were above QC limits for batch B0F0G0007. MS/MSD analysis was performed on sample ND-4-5. Source concentration was greater than four times the spike concentration and therefore data qualification was not necessary.
- The MS and MSD for thallium were not recovered for batch B0F0G0007. MS/MSD analysis was performed on sample ND-4-5. The QC batch was associated with ND-4-2.5, ND-4-5, ND-5-2.5, ND-5-5, ND-6-2.5, ND-6-5.5, ND-7-2.5, ND-7-5.5, ND-8-3, ND-8-6, ND-9-2.5, ND-9-5.5, ND-10-2, ND-10-5.5, ND-1-2.5, ND-1-5.5, ND-2-2.5, ND-2-5.5. Thallium was not detected above the reporting limit in associated samples and results were qualified with UJ flags.

### **Surrogate Recoveries**

The surrogate compound recoveries associated with groundwater samples for the sampling event were within laboratory control limits with the following exceptions:

- Surrogate p-Terphenyl %R for samples ND-12-3 and ND-3-5.5 was above QC limits. All TPH carbon chains were detected above reporting limits for sample ND-12-3 and were qualified with "J+" flags. All TPH carbon chains with the exception of the C13-C18 range were detected above reporting limits for sample ND-3-5.5 and were qualified with "J+" flags. Detections below reporting limits did not require qualification.
- Surrogate 1,2-DCA-d4 %R was above QC limits for samples ND-7-2.5 and ND-1-5.5. Analytes associated with the surrogate were not detected above reporting limits, therefore data qualification was not necessary.
- Surrogate 1,2-DCA-d4 and dibromofluoromethane %Rs were above QC limits for sample ND-4-5. Analytes associated with the surrogates were not detected above reporting limits, therefore data qualification was not necessary.
- Surrogate p-Terphenyl %R was above QC limits for sample ND-1-2.5. TPH carbon chains in the range of C25-C40 were detected above reporting limits and were qualified with "J-" flags. Ranges C15-C24 were not detected above reporting limits and results were qualified with UJ flags.
- Surrogate %Rs of 1,2-dichlorobenzene-d4, 2-fluorobiphenyl, nitrobenzene-d5, and 4-terphenyl-d14 for samples ND-4-2.5, ND-7-2.5, and ND-15-2 were below lab QC limits. Phenanthrene was detected above the reporting limit for sample ND-4-2.5 and result was qualified with a "J-" flag. All other PAH analytes were not detected above reporting limits in these samples and results were qualified with UJ flags.
- Surrogate %R of tetrachloro-m-xylene for sample ND-10-2 was below lab QC limits. The associated analytes were not detected above reporting limits in sample ND-10-2 and PCB results were qualified with UJ flags.

## Precision

Precision was quantitatively assessed through comparison of replicate results for field and laboratory duplicate samples.

### Field Duplicates

One duplicate sample was collected during the sampling event (labeled as ND-4-12 and ND-DUP, respectively). RPDs were calculated for the analytes that were detected in the primary and duplicate samples collected using the following equation:

$$RPD = 2 \times \left( \frac{S_1 - S_2}{S_1 + S_2} \right) \times 100$$

where :

S<sub>1</sub> = primary sample result, and

S<sub>2</sub> = duplicate sample result

The calculated RPDs are summarized in Table D-1. However, calculated RPDs are only applicable when the sample values are greater than or equal to two times the respective analytical reporting limit (RL) for organics and five times the analytical RL for inorganics. For the sample duplicate pairs with values greater than or equal to two times the RL for organics and five times the RL for inorganics, the precision goal is a calculated RPD less than 30%. For the primary and duplicate sample results that are less than two or five times the respective RL, the precision goal is met when the absolute difference between the results is less than the RL.

The calculated RPDs and absolute differences for primary and duplicate samples met these requirements for the sampling event with the following exceptions:

- For the primary (ND-4-12) and duplicate sample (ND-DUP), calculated RPD for arsenic is above QC goal. The primary-duplicate sample pair is associated with all groundwater samples. Arsenic was detected above the reporting limit in all associated groundwater samples, and results were qualified with J flags.
- Selenium was detected in ND-4-12, but not detected in ND-DUP. The primary-duplicate sample pair is associated with all groundwater samples. Selenium detections in associated samples were given a J qualifier; results not detected above reporting limits were flagged with a UJ qualifier.

### Laboratory Duplicates

The RPDs for the LCS/LCSD, MS/MSD, and laboratory duplicate pairs associated with samples for the sampling event were within laboratory control limits with the exception of those specifically described under the sections for spike recoveries for LCS/LCSD and spike recoveries for MS/MSD.

## Completeness

Soil and groundwater samples were successfully obtained from each location targeted for sampling. The laboratory reported the requested analyses, and the deliverable data reports were complete, therefore, the analytical data are considered valid and useable.

Completeness is the ratio of the number of valid sample results to the total number of samples analyzed within a specific matrix and/or analysis. The percent complete is calculated by the following equation:

$$\% \text{ Complete} = \frac{(\text{number of valid measurements})}{(\text{number of measurements planned})} \times 100$$

The percent complete for the results presented in this report is 100 percent for all analyses, which meets the QC goal of 90 percent. The sufficiency of valid results to meet project objectives for the analysis of analytes will continue to be evaluated in any future sampling events.

### **Data Quality Summary**

The field and laboratory quality control results indicate that the sampling and analyses performed in generating the data were generally consistent with the analytical methods and provided data suitable for project objectives. Overall, the data generated during the sampling event are acceptable and suitable for use in evaluating soil and groundwater conditions, and for decision-making purposes.

**Table D-1**

**Duplicate Sample Precision Data for Detected Analytes**  
New Dock Parcel

Results shown in milligrams per liter (µg/L)								
Analyte	Reporting Limit	Primary	Duplicate	RPD Applicable?	RPD <sup>1</sup>	Control Limit	Absolute Difference	Data Qualification
		ND-4-12	ND-DUP					
<b>U.S. EPA Method 6010B</b>								
Arsenic	10	60	130	yes	74%	30	70	J / UJ
Barium	3	1200	1400	yes	15%	30	200	NA
Beryllium	3	11	13	yes	17%	30	2	NA
Chromium	3	550	630	yes	14%	30	80	NA
Cobalt	3	110	140	yes	24%	30	30	NA
Copper	9	200	250	yes	22%	30	50	NA
Lead	5	140	170	yes	19%	30	30	NA
Molybdenum	5	71	84	yes	17%	30	13	NA
Nickel	5	260	310	yes	18%	30	50	NA
Selenium	10	47	ND	yes	NA	30	NA	J / UJ
Silver	3	5.3	5.7	no	NA	30	0.4	NA
Vanadium	3	750	870	yes	15%	30	120	NA
Zinc	25	890	1000	yes	12%	30	110	NA
<b>U.S. EPA Method 8015B</b>								
C13-C22	50	140	100	yes	33%	30	40	J
C23-C40	50	150	150	yes	0%	30	0	NA

Notes

1. RPD = relative percent difference as calculated by Wood using the following equation. The precision goal is 30%.  
Results in **BOLD** where exceeding 30%

$$RPD = 2 \times \frac{|S_1 - S_2|}{S_1 + S_2} \times 100$$

2. RPD not calculated when the analyte is not detected above the reporting limit shown or less than two times the reporting limit for organics and five times for inorganics. In those cases, duplicate results are acceptable when the absolute difference between the results is less than the reporting limit.

Abbreviations

U.S. EPA = United States Environmental Protection Agency.

ND = not detected above the reporting limit shown

NA = not applicable

J = The analyte was positively identified and the associated numerical value is approximate.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate.