



BERKELEY ANALYTICAL

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VOC Emissions from Building Products

| Customer & Building Product Sample Information | | | | |
|--|--|--|--|--|
| Report Certification | | | | |
| Report number | 1434-001-01A-Nov0422 | | | |
| Report date | Nov 4, 2022 | | | |
| Certified by (Name/Title) | Raja S. Tannous, Laboratory Director | | | |
| Signature | Japs. fr | | | |
| Date | November 4, 2022 | | | |
| Standards | | | | |
| Test method | CDPH/EHLB/Standard Method V1.2 (Sect. 01350) | | | |
| Acceptance criteria | CDPH/EHLB/Standard Method V1.2 | | | |
| Modeling scenario(s) | CDPH/EHLB/Standard Method V1.2 Standard Classroom & Office | | | |
| Product type | Ceiling (all types) | | | |
| Customer Information | | | | |
| Manufacturer or organization ProCoat Products, Inc | | | | |
| City/State/Country | Holbrook, MA USA | | | |
| Contact name/Title | Ken Woolf | | | |
| Phone number | 781-767-2260 | | | |
| Product Sample Information* | | | | |
| Manufacturer (if not customer) | Same as above | | | |
| Product name / Number | ProCoustic, Acoustical Coating | | | |
| Product CSI category | Acoustic Finishes (09 83 00) | | | |
| Customer sample ID | not provided | | | |
| Manufacturing location | ProCoat Products, Holbrook, MA | | | |
| Date sample manufactured | Sep 22, 2022 | | | |
| Date sample collected | Sep 22, 2022 | | | |
| Date sample shipped | Sep 30, 2022 | | | |
| Date sample received by lab | Oct 12, 2022 | | | |
| Condition of received sample | No observed problems | | | |
| Lab sample tracking number | 1434-001-01A | | | |
| Conditioning start date & duration | Oct 14, 2022; 10 days | | | |
| Chamber test start date & duration | Oct 24, 2022; 4 days (96 hours) | | | |
| Total test start date & duration | Oct 14, 2022; 14 days (336 hours) | | | |

*Chain-of-custody (COC) form for product sample is attached to this report



Conformity Assessment – CDPH VOC Concentration Criteria

VOC Emission Test Results – The product sample was tested for emissions of VOCs following California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017. The chamber test results were modeled to one or more scenario(s) defined in CDPH Standard Method V1.2. The modeled indoor VOC concentrations then were compared to the acceptance criteria defined in CDPH Standard Method V1.2 to determine compliance of the product sample to the standard. The modeling scenario(s) are detailed in Table 3, and the predicted indoor VOC concentrations at 336 hours are given in Table 6 of this report. The allowable concentrations used as acceptance criteria are reproduced in Appendix B of this report. Table 1 summarizes the pass/fail results based on the predicted indoor air concentrations of individual VOCs of concern in the modeled scenario(s).

Decision Rule – The decision rule is defined in CDPH Standard Method V1.2. Compliance to the standard is determined based on the estimated indoor air concentrations of individual VOCs at 336 hours for the modeling scenario(s) without consideration of measurement uncertainty.

TVOC Concentration Range – USGBC's LEED v4 rating systems for buildings include a requirement for reporting of the predicted TVOC concentration in one of three range categories, i.e., $\leq 0.5 \text{ mg/m}^3$, $>0.5 \text{ to } 4.9 \text{ mg/m}^3$, and $\geq 5.0 \text{ mg/m}^3$. Table 1 includes the TVOC concentration range in the modeled scenario(s).

| Table 1. Pass/ | Fail results based on the test method and identified modeling scenarios. Only detected individual | |
|----------------|---|--|
| VOCs | with defined acceptance criteria are listed. The TVOC concentration range also is shown | |

| Chemical | CAS No | Allowable Concentration | | oncentration /Fail) |
|---|--------|----------------------------|-------------------------|-------------------------|
| | | (µg/m³) | Classroom | Office |
| No formaldehyde or other target CREL VOCs were detected | | | Pass | Pass |
| TVOC ^a | | | ≤ 0.5 mg/m ³ | ≤ 0.5 mg/m ³ |

^a Reporting of TVOC range is for information only; TVOC is not a Pass/Fail criterion



Test Method for Building Product Samples

Test Specimen Preparation – A pre-cut and conditioned gypsum board is used as painting substrate. The back side and edges of the gypsum board are covered by stainless steel plate, and then sealed all the edges with aluminum tape, leaving 17.7cm*17.7cm face area for painting.

Using a roller, we applied 4.80 gram of paint sample evenly across the whole painting area of the substrate. The mass applied is based on the product density and the manufacturer's recommended paint coverage. The exposed area is calculated based on the painted surface area of 17.7cm*17.7cm. Photographs of the tested specimen are shown later in this report. The test results presented herein are specific to this item.

Test Protocol Summary* – This VOC emission test was performed following California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017. This version of the standard is identical to CDPH/EHLB/Standard Method V1.1, 2010 except that the benzene allowable concentration is lower. Note: this standard derives from California architectural Specification 01350 and frequently is referred to as "Section 01350." The chamber test prescribed in the standard follows the guidance of ASTM Standard Guide D5116. Chemical sampling and analyses were performed following U.S. EPA Compendium Method TO-17 and ASTM Standard Method D5197. The product specimen was prepared from the supplied product sample and was placed directly into the conditioning environment and maintained at controlled conditions of air flow rate, temperature and relative humidity for ten days. At the end of this period, the specimen was transferred directly to a small-scale chamber. The chamber conditions for the 96-h test period are summarized in Table 2. Air samples were collected from the chamber at 24 h, 48 h and 96 h elapsed time. Samples for the analysis of individual VOCs and TVOC were collected on multisorbent tubes containing Tenax-TA backed by a carbonaceous sorbent. Samples for the analysis of low molecular weight aldehydes were collected on treated DNPH cartridges. VOC samples were analyzed by thermal desorption GC/MS. TVOC was calculated using toluene as the calibration reference. Individual VOCs (iVOCs) were quantified using multi-point (4 or more points) with calibration curves prepared with pure standards, unless otherwise noted. iVOCs without pure standards were quantified based on their total-ion-current responses using toluene as the calibration reference. Formaldehyde and acetaldehyde were analyzed by HPLC and quantified using multi-point (4 or more points) calibration curves. The analytical instruments and their operating parameters are described in Appendix A.

Exception(s) and **Deviation(s)** – 1) For ASTM D5197 analysis of carbonyl compounds, DNPH cartridges are extracted into 2-mL volumetric vials instead of 5-mL volumetric flasks. This deviation has no impact on the results.

Measurement Uncertainty (MU) – Combined relative standard deviations (RSDs) have been estimated by propagation of error for the measurement of area-specific emission rates of 35 iVOCs plus formaldehyde and acetaldehyde in small- and mid-scale chambers. These RSDs are within a range of 3.4 - 29% with median and average values of 12% and 14%, respectively. Expanded MU equals 2 x RSD.

Disclaimer – The sample was collected by the customer or by a third party. The results are specific to this test item as received from the customer.

Availability of Data – All data, including but not limited to raw instrument files, calibration files, and quality control checks used to generate the test results will be made available to the customer upon request subject to Berkeley Analytical's Services Agreement.

^{*}All standards identified in this section are included in Berkeley Analytical's scope of ISO/IEC17025 accreditation, Testing Laboratory TL-383, International Accreditation Service, www.iasonline.org



Test Method for Building Product Samples, Continued

Table 2. Chamber conditions for test period

| Parameter | Symbol | Units | Value |
|----------------------------------|----------------|----------------|---------------------|
| Tested specimen exposed area | As | m² | 0.031 |
| Chamber volume | Vc | m ³ | 0.067 |
| Loading ratio | L | m²/m³ | 0.468 |
| Avg. Inlet gas flow rate & Range | Q _C | m³/h | 0.067 (0.064-0.070) |
| Avg Temperature & Range | | °C | 23.3 (22-24) |
| Avg Relative humidity & Range | | % | 50 (45-55) |
| Duration | | h | 96 |

Modeling Parameters for Building Products

Modeling Parameters – CDPH/EHLB/Standard Method Version 1.2 describes the modeling procedures and parameters for estimating the impact of VOC emissions from a building product on indoor air concentrations in a standard classroom and a standard office space. The dimensions and ventilation of the spaces and the exposed surface areas of major materials are prescribed. The modeling scenario(s) and parameters applicable to this test are listed in Table 3.

Table 3. Parameters used for estimating VOC air concentrations at 336 hours for the modeling scenarios

| Parameter | Symbol | Units | Value | | |
|-----------------------------|-----------------|----------------|-----------|--------|--|
| Falameter | Symbol | Onits | Classroom | Office | |
| Product exposed area | A _{PB} | m ² | 89.2 | 11.1 | |
| Building volume | V _B | m ³ | 231 | 30.6 | |
| Floor/Ceiling Area | A _B | m² | 89.2 | 11.15 | |
| Ceiling height | H _B | m | 2.59 | 2.74 | |
| Outdoor air (OA) flow rate | QB | m³/h | 191 | 20.7 | |
| Area-specific air flow rate | qA | m³/m²-h | 2.14 | 1.86 | |





VOC Emission Test Results

Chamber Background Concentrations – Background concentrations measured at time zero are reported in Table 4. The background concentrations of TVOC, formaldehyde, acetaldehyde, and reported iVOCs are listed.

| Chemical/Chemical Group | CAS No | Chamber Conc (μg/m³) |
|-------------------------|---------|-------------------------|
| Acetaldehyde | 75-07-0 | LQ |
| Ethanol | 64-17-5 | 2.4 |
| Formaldehyde | 50-00-0 | LQ |
| TVOC | | LQ |

Table 4. Chamber background VOC concentrations at time zero

Emitted VOCs – Individual VOCs (iVOCs) detected in the test and present above the lower limits of quantitation in chamber air are reported in Table 5. All iVOCs with CRELs and/or on other lists of toxicants of concern are listed first. Next, all frequently occurring iVOCs with pure standard calibrations are listed. Additionally, the 10 most abundant iVOCs quantified using toluene as the reference standard are listed; identifications of these compounds are considered tentative. Reporting of fewer than 10 iVOCs indicates that fewer than 10 chemicals met these criteria.

 Table 5. Listed and abundant iVOCs detected above lower limits of quantitation in 96-h air sample

| Chemical | CAS No | Surrogate?* | CREL (µg/m³) | CARB TAC Category | Prop 65 List? |
|----------------|---------|-------------|-----------------|----------------------|------------------|
| Methyl acetate | 79-20-9 | | | | |

*"Yes" response indicates iVOC quantified using toluene as the calibration reference; all other iVOCs quantified using pure standards



VOC Emission Test Results, Continued

VOC Emission Factors and Estimated Indoor Air Concentrations – The 96-h chamber sample was analyzed for iVOCs including formaldehyde and acetaldehyde. The emission factors for iVOCs presented in Table 6 were calculated from the chamber parameters, the exposed area of the test specimen and the measured 96-h chamber concentrations corrected for any chamber background concentrations. The emission factors were used to predict the indoor air concentrations of iVOCs for the modeling scenario(s) applicable to this test as shown in Table 3. See Equations for calculation methods.

Table 6. Measured chamber concentrations at 96 h, calculated emission factors, and estimated indoor airconcentrations of individual VOCs for the modeling scenarios

| Chemical | Chamber Emission Concentration Factor | Estimated Indoor Air Concentration (µg/m ³) | | |
|----------------|--|--|-----------|--------|
| | (µg/m³) | (µg/m²-h) | Classroom | Office |
| Methyl acetate | 2.6 | 5.5 | 2.6 | 2.9 |



VOC Emission Test Results, Continued

Quality Measurements – Chamber samples collected at 24, 48 and 96 hours were analyzed for total VOCs (TVOC). Because the TVOC response per unit mass of a chemical is highly dependent upon the specific mixture of iVOCs, the measurement of TVOC is semi-quantitative. TVOC primarily is used as a quality measure to determine if the VOC emissions from a product are relatively constant or generally declining over the test period. Some programs may require the reporting of predicted indoor air TVOC concentrations or concentration ranges in mg/m³. TVOC emission factors and predicted TVOC concentrations are shown in Table 7. Aldehyde samples collected at 24, 48 and 96 hours were analyzed for formaldehyde as another quality measure. Formaldehyde emission factors are shown in Table 8. Product claims related to formaldehyde content may be based, in part, on formaldehyde emission factors.

 Table 7. TVOC chamber concentrations at 24, 48, and 96 h with corresponding emission factors and predicted indoor air concentrations (mg/m³)

| Elapsed Time | Chamber Concentration | Emission Factor | Estimated Indoor A (mg/I | |
|--------------|--------------------------|--------------------|-----------------------------|--------|
| (h) | (µg/m³) | (µg/m²-h) | Classroom | Office |
| 24 | LQ | LQ | LQ | LQ |
| 48 | LQ | LQ | LQ | LQ |
| 96 | LQ | LQ | LQ | LQ |

Table 8. Formaldehyde chamber concentrations at 24, 48, and 96 h with corresponding emission factors

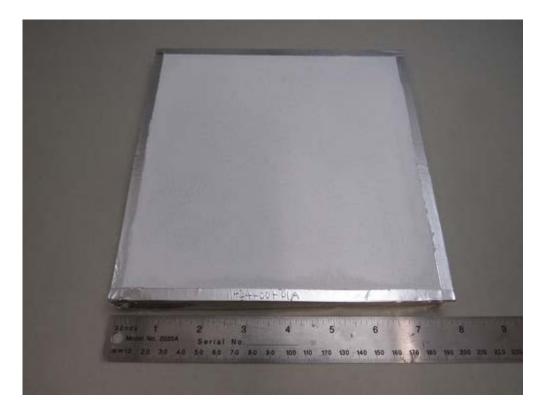
| Elapsed Time (h) | Chamber Concentration (μg/m³) | Emission Factor (µg/m²-h) |
|---------------------|-------------------------------------|---------------------------------|
| 24 | 1.5 | 3.2 |
| 48 | 1.2 | 2.6 |
| 96 | LQ | LQ |





Photographs of Tested Product Specimen

Photo Documentation – The product sample specimen is photographed immediately following specimen preparation and prior to initiating the conditioning period. Typically, the top and bottom faces of the specimen are photographed. Bottom faces may show a stainless-steel plate or other substrate if prescribed by the standard.





Definitions, Equations, and Comments

Table 9. Definitions of parameters

| Parameter/Value | Definition |
|-----------------------------|--|
| CARB TAC | Toxic Air Contaminant (TAC) on California Air Resources Board list, with toxic category indicated |
| CAS No. | Chemical Abstract Service registry number providing unique chemical ID |
| Chamber Conc. | Measured chamber VOC concentration at time point minus any analytical blank or background concentration for empty chamber measured prior to test. Lower limit of quantitation (LQ) or reporting limit for individual VOCs is 2 µg/m ³ unless otherwise noted |
| Indoor Air Conc. | Estimated indoor air concentration in standard modeled environment calculated from the emission factors from test results and the modeling parameters in Table 3 using the equations given below |
| CREL | Chronic non-cancer Reference Exposure Level established by Cal/EPA OEHHA (http://www.OEHHA.ca.gov/air/allrels.html) |
| Emission Factor | Mass of compound emitted per unit area per hour (calculation shown below). Reporting limits for emission factors are established by LQ or reporting limit for chamber concentration and specimen area tested |
| Formaldehyde & acetaldehyde | Volatile aldehydes quantified by HPLC following ASTM Standard Method D5197. LQs for formaldehyde and acetaldehyde are 1 µg/m ³ and 1.4 µg/m ³ , respectively |
| Individual VOCs | Quantified by thermal desorption GC/MS following EPA Method TO-17. Compounds quantified using multi-point calibrations prepared with pure chemicals unless otherwise indicated. VOCs with chronic RELs are listed first, followed by other TAC and Prop. 65 compounds. Additional abundant VOCs at or above reporting limit of 2 µg/m ³ are listed last |
| LQ | Indicates calculated value is below its lower limit of quantitation |
| Prop 65 list | "Yes" indicates the compound is a chemical known to cause cancer or reproductive toxicity according to California Safe Drinking Water Toxic Enforcement Act of 1986 (Proposition 65) |
| тиос | Total Volatile Organic Compounds eluting over retention time range bounded by n-pentane and n-heptadecane and quantified by GC/MS TIC method using toluene as calibration reference. LQ for TVOC is 20 μg/m ³ |
| "na" | Not applicable |
| "<" | Less than value established by LQ |

Equations Used in Calculations – An emission factor (EF) in μ g/m²-h for a chemical in a chamber test of a building product sample is calculated using Equation 1:

$$EF = (Q_c (C - C_o)) / A_s$$
 (1)

where Q_c is the chamber inlet air flow rate (m³/h), C is the VOC chamber concentration ($\mu g/m^3$), C₀ is the corresponding chamber background VOC concentration ($\mu g/m^3$), and A_s is the tested specimen exposed area (m²).





Definitions, Equations, and Comments, Continued

The indoor air concentration (C_B) for the modeled space in $\mu g/m^3$ is estimated using Equation 2 and the parameters defined in Table 3:

$$C_{B} = (EF \times A_{P_{B}}) / Q_{B}$$
(2)

where A_{P_B} is the exposed area of the product in the building (m²) and Q_B is the outside air flow rate (m³/h).

Comments: None.

END OF REPORT



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Appendix A Analytical Instruments & Operating Parameters

Table A1. Description of analytical instrument components

| Component | Description |
|-------------------|--|
| HPLC | 1260 Infinity Quaternary LC, G1314F VW Detector, Agilent |
| Analytical column | Poroshell 120 EC-C18, Agilent |
| Column dimensions | 2.1 mm x 100 mm |
| Thermal desorber | Unity / TD100, Markes International, Ltd. |
| Gas chromatograph | Model 7890A, Agilent |
| Analytical column | DB-624, J&W Scientific |
| Column dimensions | 1 μm film, 0.18 mm ID, 20 m |
| Mass spectrometer | Model 5975C MSD, Agilent |

Table A2. HPLC operating parameters for analysis of formaldehyde and acetaldehyde

| Parameter | Value |
|---------------------|--------------------------------------|
| Solvent A | 65/35% H ₂ O/Acetonitrile |
| Solvent B | 100% Acetonitrile |
| Flow rate | 0.3 mL/min |
| End time | 11 min |
| Detector wavelength | 360 nm |

 Table A3.
 Thermal desorption GC/MS parameters used for analysis of iVOCs and TVOC

| Parameter | Value |
|----------------------------|---------|
| Thermal desorption | |
| Tube desorb temperature | 300 °C |
| Trap temperature | -5 °C |
| Trap desorb temperature | 300 °C |
| Trap desorb split ratio | 10:1 |
| Gas chromatograph | |
| Initial temperature | 40°C |
| Initial temperature time | 6.0 min |
| Final temperature | 300 °C |
| Final temperature time | 2 min |
| Mass spectrometer | |
| Low scan mass, <i>m/z</i> | 30 amu |
| High scan mass, <i>m/z</i> | 450 amu |
| Scan rate | 3.42 Hz |



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Appendix B Target CREL VOCs and Their Maximum Allowable Concentrations Copied from CDPH/EHLB/Standard Method Version 1.2, 2017, Table 4-1

| No. | Compound Name | CAS No. | Allowable Conc. (µg/m ³) |
|-------|--|-----------|---|
| 1 | Acetaldehyde | 75-07-0 | 70 |
| 2 | Benzene | 71-43-2 | 1.5 |
| 3 | Carbon disulfide | 75-15-0 | 400 |
| 4 | Carbon tetrachloride | 56-23-5 | 20 |
| 5 | Chlorobenzene | 108-90-7 | 500 |
| 6 | Chloroform | 67-66-3 | 150 |
| 7 | Dichlorobenzene (1,4-) | 106-46-7 | 400 |
| 8 | Dichloroethylene (1,1) | 75-35-4 | 35 |
| 9 | Dimethylformamide (N,N-) | 68-12-2 | 40 |
| 10 | Dioxane (1,4-) | 123-91-1 | 1,500 |
| 11 | Epichlorohydrin | 106-89-8 | 1.5 |
| 12 | Ethylbenzene | 100-41-4 | 1,000 |
| 13 | Ethylene glycol | 107-21-1 | 200 |
| 14 | Ethylene glycol monoethyl ether | 110-80-5 | 35 |
| 15 | Ethylene glycol monoethyl ether acetate | 111-15-9 | 150 |
| 16 | Ethylene glycol monomethyl ether | 109-86-4 | 30 |
| 17 | Ethylene glycol monomethyl ether acetate | 110-49-6 | 45 |
| 18 | Formaldehyde | 50-00-0 | 9* |
| 19 | Hexane (n-) | 110-54-3 | 3,500 |
| 20 | Isophorone | 78-59-1 | 1,000 |
| 21 | Isopropanol | 67-63-0 | 3,500 |
| 22 | Methyl chloroform | 71-55-6 | 500 |
| 23 | Methylene chloride | 75-09-2 | 200 |
| 24 | Methyl t-butyl ether | 1634-04-4 | 4,000 |
| 25 | Naphthalene | 91-20-3 | 4.5 |
| 26 | Phenol | 108-95-2 | 100 |
| 27 | Propylene glycol monomethyl ether | 107-98-2 | 3,500 |
| 28 | Styrene | 100-42-5 | 450 |
| 29 | Tetrachloroethylene | 127-18-4 | 17.5 |
| 30 | Toluene | 108-88-3 | 150 |
| 31 | Trichloroethylene | 79-01-6 | 300 |
| 32 | Vinyl acetate | 108-05-4 | 100 |
| 33-35 | Xylenes, technical mixture | 108-38-3, | 350 |
| | (m-, o-, and p- xylene combined) | 95-47-6, | |
| | | 106-42-3 | |

*All maximum allowable concentrations are one half the corresponding CREL adopted by Cal/EPA OEHHA with the exception of formaldehyde for which the full CREL of 9 μ g/m³ is allowed.

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Customer Information *

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| Manufacturer Information (if different from customer) | | |
|---|--|--|
| Company: | | |
| City/State/Country: | | |
| Contact Name/Title: | | |
| Phone Number/Email Address: | | |

ALEC HUANG

| Sam | ple Details | | | |
|---|---|--|---|--|
| Product Commercial Name: ProCoustic, Acoustical Coating | | | quest for Laboratory Certificate of Compliance | |
| Product Commercial Part No. (if not part of name)*: | | | Indicate if you are ordering a Laboratory Certificate of Compliance: Yes | |
| Manufacturer Sample Tracking ID: | | Laboratory certificates are available for th | Laboratory certificates are available for the compliance test(s) listed on the BldgProdWorksheet. Berkeley Analytical's laboratory test results and associated certificates are specific to the tested item. Claims made by the customer regarding the | |
| Manufactured date: 9/22/2022 | | | broader representativeness of the test results and certificate are the sole responsibility of the customer. | |
| Product Category & Use*: | | | | |
| Sample Construction Material*: | | | | |
| Plant Name & Location*: | | Customer Authori | izes Laboratory to Submit Copies of Test Report to: | |
| Collection Location within Plant: | | ken.woolf@procoat.com | | |
| Collection date: 9/22/2022 | | ProCoat Products, Inc. | | |
| Number of Sample Pieces*: | Photo(s) of Collection Location: Attach | lisa.schwartz@procoat.com | | |
| Jessica Corwin | | ProCoat Products, Inc. | | |
| Phone/Fax Numbers*: | | | | |
| E-mail Address*: | | | For Berkeley Analytical Use Only | |
| Shipp | ing Details* | Condition of Shipping Package: | 6k | |
| Tammy Rothwell | | Condition of Sample: | de | |
| 012112022 9-30-2022 | | Lab Tracking Number: | 21 001 014 | |
| 1=21797470393312157 - FedEx 425 | 12189010030301574 | -2 40 | 34-001-01A | |
| | | Asterisk (*) See Notes Tab | • | |
| Sample Handling | | | | |
| Relinquished By* | Received By* | Signature* | Date* Company* | |
| | | | | |
| | ALEC HUDEVE | CUINA | (0-12-2022 BKA | |

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Chain of Custody for Building Product/ Material VOC Emission Test

A Separate COC must be completed for EACH product/material sample

A link to Berkeley Analytical's Services Agreement is included in this workbook. By submitting samples,

customer acknowledges and accepts these terms & conditions unless a prior written contract is in effect.

59563 Berkeley Analytical Quotation Number: Purchase Order (enter company & number): Prepaid

| Requested Test (automatically filled from BldgProdWorksheet Selections) | | | | |
|---|-----------------------|--|--|--|
| Test to be performed * | CDPH Std. Method V1.2 | | | |
| Modeling scenario | Office & Classroom | | | |
| Test schedule (screening tests only) | | | | |
| Target chemicals & chemical groups (screening) | | | | |
| CARB ATCM test, schedule | | | | |
| Test results application(s) | | | | |
| For Berkeley Analytical Use: | | | | |
| Report ID | RPT66 | | | |
| Billing Reference | ALL AND A BREAK | | | |

Customer Instructions for Sample Prep., Test Type, schedule, etc. (filled from BldProdWorksheet)

FQ01.3