

February 7, 2020
Job # J3854

To: Hiro Kobayashi,
800 S. Figueroa St., Suite 620,
Los Angeles, CA – 90017

Attn: Mr. Hiro Kobayashi

Tel: 213.488.9039 x105

Email: h.kobayashi@rbmofca.com

Subj: Site Methane Investigation Report of a new 5-story apartment building to be built over 2 subterranean parking levels, at:

2107-2121 S. Westwood Blvd., Los Angeles, CA – 90025



METHANE
SPECIALISTS

5210 Lewis Road,
Suite 1,
Agoura Hills, CA - 91301

TEL: 805.987.5356
FAX: 805.987.3968

methanespecialists.com

Methane Specialists is pleased to submit this report with the results of our subsurface methane investigation for the project mentioned above. The purpose of the investigation was to measure subsurface soil gas concentrations and pressures of methane at the subject site to determine site-specific methane mitigation requirements prescribed by the City of Los Angeles Department of Building and Safety (Division 71 of the Los Angeles Building Code). This investigation was conducted in accordance with our proposal dated January 10, 2020.

Project Information

The Project Site is on an approximately 27,018 square-foot parcel (0.62 acre), in the City of Los Angeles. This Project proposes the construction of a new 5-story apartment building to be built over 2 subterranean parking levels. Refusal was met in boring down to a minimum of approximately 20 feet, (bsg), at both deep probesets, DP-1 and DP-2. Actual ground water was not met while drilling down to a depth of at least 20 feet, bsg, at both deep probesets. A geotechnical report was not provided to us prior to the writing of this report. Historical ground water is taken to be at least greater than 20 feet, bsg, in the project area. This would be approximately greater than zero (0) feet below where an impermeable membrane could be required to be installed under the lowest parking level slab, at approximately twenty (20) feet, bsg.

The site is within an area which the City of Los Angeles designates as a Methane Buffer Zone (Source: ZIMAS Parcel Profile Report (enclosed)).

City of Los Angeles Methane Requirements

Requirements for control of methane intrusion in the City of Los Angeles are specified in Division 71 of Article 1, Chapter IX of the Los Angeles Municipal Code (“Division 71”). Since the project is within the Methane Buffer Zone, the Los Angeles Department of Building and Safety (LADBS) has the authority to withhold permits for construction unless detailed plans for adequate protection against methane intrusion are submitted, if testing leads to methane mitigation being required.

The level of methane protection required depends upon the “design methane concentration,” which is defined in Division 71 as “the highest concentration of methane gas found during site testing.” Site testing is required to determine the design concentration, unless the developer accepts the most stringent methane mitigation requirements (“Level V”). If site testing is performed (e.g., to document that a lower level of mitigation is justified), then it must follow a protocol published by the Department of Building and Safety, “Site Testing Standards for Methane” (P/BC 2014-101, November 30, 2014).

P/BC 2014-101 prescribes a three-step process for methane evaluation:

- (1) Scheduling site testing either before or 30 days after any site grading;
- (2) Conducting shallow soil gas tests (not less than 4 feet, bsg); and
- (3) Installing and using multiple-depth gas probe sets where the highest concentrations of soil gases are expected to be found

For the first step, site testing was scheduled for February 6, and 7, 2020. Methane Specialists also notified Underground Service Alert of Southern California to mark the site for underground utilities, and the utilities were subsequently marked and cleared.

For the second step, P/BC 2014-101 requires one shallow sampling location for every 10,000 square feet, or portion thereof, of site area, with a minimum of two shallow soil gas probe locations. Since the parcel area is approximately 27,018 square feet, three (3) shallow sampling locations were required.

The third step in the City’s methane evaluation process is to collect a minimum of two samples at multiple depths, and at least one multiple-depth probeset per every 20,000 square feet, or portion thereof. Thus, the minimum of three (3) multiple-depth deep gas probe sets were also required.

Shallow Soil Gas Probe Testing

City Guidelines require that one shallow-depth probe be installed for every 10,000 square feet of site area where the highest concentration of soil gas is most likely to be found, with a minimum of two shallow gas probes, regardless of the total area of the site. Since the total square footage of the parcel is approximately 27,018 square feet, Methane Specialists installed the required minimum of three (3) shallow methane probes at a depth of 4 feet bsg (see Probe Location Map).

The three shallow gas probes (SP-1, SP-2 and SP-3) were drilled and installed, starting on February 6, 2020. Methane Specialists used a direct-push drill rig to hydraulically drive a 1.50-inch rod into the ground to a depth of approximately 4 feet, bsg. A 1/4" polyethylene probe was then inserted into the boreholes. Approximately six inches of sand was placed in the boreholes, above and below the probe, to provide a sampling area. Bentonite was then added to the top of each of the boreholes. A hydrated bentonite plug was then placed above the bentonite, in each borehole, to form a seal. Methane Specialists recorded all the readings. (see attached Probe Detail)

Shallow probe site testing was conducted on February 6, and 7, 2020.

Multiple-Depth Gas Probe Set Testing

City Guidelines also require that one multiple-depth deep probe set be installed for every 20,000 square feet of site area where the highest concentration of soil gas is most likely to be found, with a minimum of two multiple-depth deep gas probe sets, regardless of the total area of the site. Since the total area of the site is approximately 27,018 square feet, Methane Specialists drilled and installed the required two (2) multiple-depth deep probesets (DP-1 and DP-2), also starting on February 6, 2020.

The multiple-depth deep probes were also installed using direct-push drilling equipment in the same manner as were the shallow gas probes. The deep probes were installed as triple-well clusters, for both DP-1, and DP-2. Refusal was met at 20 feet, bsg, of both the DP-1 and DP-2 deep probesets. In all cases, at each probe depth, approximately twelve inches of sand was placed in the borehole around each of the probes. Each sand layer, of each probe, was separated by a layer of bentonite, between the sampling elevations. A hydrated, bentonite, plug was then placed onto the top of each borehole to form a seal.

Multiple-depth probe site testing was similarly conducted on February 6, and 7, 2020.

Sampling and Analysis

For field data sampling and analysis, Methane Specialists measured these probes for methane with a RKI Eagle portable, gas-sampling meter. The lower limit for reporting methane levels with the RKI Eagle is 500 ppmv (parts per million by volume).

The RKI Eagle was calibrated against standard calibrant samples by trained Methane Specialists staff members.

The probe pressures were all measured with a Dwyer Magnehelic Differential Pressure Gauge with a minimum scale division of 0.1 inch of water (H₂O).

Results of Shallow Gas Probe and Multiple-Depth Gas Probe Analysis

The attached Form 1 shows the results of the analysis of both the shallow, and the multiple, depth deep probe sets.

Recommendations

In summary, for this project located in the Methane Buffer Zone, one detectable reading of methane was recorded while testing at this site. As per Table 1B (enclosed), this project falls under Design Level II, with less than 2 inches of water-column gas-pressure. In accordance with said Methane Code Table 1B, this project requires no methane mitigation system.

Disclaimer

All discussion in this report is based on information provided by the client, as well as data and conditions, as they existed at the time and date of testing at the site. Should any detail, or condition, change from that original information, then, re-consideration of the conclusions in this report could become justified. Methane Specialists cannot be held accountable for the consequences of relevant information which was not previously provided. Nor can Methane Specialists be held accountable for the consequences of changes in the project scope, or of project site conditions.

This report has been prepared for the sole use of the client, exclusively, for the completion of the subject project, alone. No other application, or interpretation, of this report is to be granted, or implied, or otherwise made, without first obtaining direct, written permission, exclusively from Methane Specialists.

Respectfully,
Methane Specialists



Kirby N. Arriola, P.E. (C-31416)

INDEX OF ENCLOSURES

PARCEL PROFILE REPORT

METHANE PROBE LOCATION MAP

TYPICAL METHANE PROBE SET DETAIL

FORM 1, PART 2 – TEST DATA

TABLE 1 –MITIGATION REQUIREMENTS

FORM 1, PART 1 – CERTIFIED RESULTS



City of Los Angeles Department of City Planning

1/10/2020 PARCEL PROFILE REPORT

PROPERTY ADDRESSES

2107 S WESTWOOD BLVD
2109 S WESTWOOD BLVD
2111 S WESTWOOD BLVD

ZIP CODES

90025

RECENT ACTIVITY

None

CASE NUMBERS

CPC-2018-7546-CPU
CPC-2014-1457-SP
CPC-1992-41-HD
CPC-1992-40-ZC
CPC-1992-39-SUD
CPC-1978-27677
CPC-1974-25468
CPC-12652
ORD-186108
ORD-183497
ORD-171859
ORD-171492
ORD-171227
ORD-160340
ORD-152046
ORD-147820
ORD-129279
ORD-121730
ZA-2009-3144-CUB
ZA-19XX-7215
ZA-1992-1206-CUB
ENV-2014-1458-EIR-SE-CE
ENV-2009-3145-MND
ENV-2005-8253-ND
ENV-2002-478-CE
ED-75-154-ZC-HD
ND-93-12-ZC
OB-10346
AFF-55840
AFF-55805

Address/Legal Information

| | |
|------------------------------|-------------------------|
| PIN Number | 126B153 133 |
| Lot/Parcel Area (Calculated) | 6,754.6 (sq ft) |
| Thomas Brothers Grid | PAGE 632 - GRID C5 |
| Assessor Parcel No. (APN) | 4322001021 |
| Tract | TR 5609 |
| Map Reference | M B 65-72/73 (SHTS 5-6) |
| Block | 47 |
| Lot | 2 |
| Arb (Lot Cut Reference) | None |
| Map Sheet | 126B153 |

Jurisdictional Information

| | |
|--------------------------|--------------------|
| Community Plan Area | West Los Angeles |
| Area Planning Commission | West Los Angeles |
| Neighborhood Council | Westside |
| Council District | CD 5 - Paul Koretz |
| Census Tract # | 2672.00 |
| LADBS District Office | West Los Angeles |

Planning and Zoning Information

| | |
|---|---|
| Special Notes | None |
| Zoning | C4-1VL-POD |
| Zoning Information (ZI) | ZI-2256 Westwood / Pico ZI-2192 West Los Angeles Transportation Improvement and Mitigation ZI-2452 Transit Priority Area in the City of Los Angeles |
| General Plan Land Use | Neighborhood Commercial |
| General Plan Note(s) | Yes |
| Hillside Area (Zoning Code) | No |
| Specific Plan Area | West Los Angeles Transportation Improvement and Mitigation |
| Subarea | None |
| Special Land Use / Zoning | None |
| Design Review Board | No |
| Historic Preservation Review | No |
| Historic Preservation Overlay Zone | None |
| Other Historic Designations | None |
| Other Historic Survey Information | None |
| Mills Act Contract | None |
| CDO: Community Design Overlay | None |
| CPIO: Community Plan Imp. Overlay | None |
| Subarea | None |
| CUGU: Clean Up-Green Up | None |
| HCR: Hillside Construction Regulation | No |
| NSO: Neighborhood Stabilization Overlay | No |
| POD: Pedestrian Oriented Districts | Westwood / Pico |
| RFA: Residential Floor Area District | None |
| RIO: River Implementation Overlay | No |
| SN: Sign District | No |
| Streetscape | No |

| | |
|------------------------------------|--------|
| Adaptive Reuse Incentive Area | None |
| Affordable Housing Linkage Fee | |
| Residential Market Area | High |
| Non-Residential Market Area | High |
| Transit Oriented Communities (TOC) | Tier 2 |
| RPA: Redevelopment Project Area | None |
| Central City Parking | No |
| Downtown Parking | No |
| Building Line | None |
| 500 Ft School Zone | No |
| 500 Ft Park Zone | No |

Assessor Information

| | |
|------------------------------|---------------------------------------|
| Assessor Parcel No. (APN) | 4322001021 |
| APN Area (Co. Public Works)* | 0.310 (ac) |
| Use Code | 1100 - Commercial - Store - One Story |
| Assessed Land Val. | \$2,160,296 |
| Assessed Improvement Val. | \$170,943 |
| Last Owner Change | 11/07/2016 |
| Last Sale Amount | \$9 |
| Tax Rate Area | 67 |
| Deed Ref No. (City Clerk) | 2-541 |
| | 1494342 |
| | 1419965 |
| | 1130977 |

Building 1

| | |
|-------------------------|------------------------|
| Year Built | 1928 |
| Building Class | D5A |
| Number of Units | 0 |
| Number of Bedrooms | 0 |
| Number of Bathrooms | 0 |
| Building Square Footage | 7,136.0 (sq ft) |
| Building 2 | No data for building 2 |
| Building 3 | No data for building 3 |
| Building 4 | No data for building 4 |
| Building 5 | No data for building 5 |

Additional Information

| | |
|---|---------------------|
| Airport Hazard | None |
| Coastal Zone | None |
| Farmland | Area Not Mapped |
| Urban Agriculture Incentive Zone | YES |
| Very High Fire Hazard Severity Zone | No |
| Fire District No. 1 | No |
| Flood Zone | None |
| Watercourse | No |
| Hazardous Waste / Border Zone Properties | No |
| Methane Hazard Site | Methane Buffer Zone |
| High Wind Velocity Areas | No |
| Special Grading Area (BOE Basic Grid Map A-13372) | Yes |
| Wells | None |

Seismic Hazards

| | |
|--------------------------------|---|
| Active Fault Near-Source Zone | |
| Nearest Fault (Distance in km) | 0.87544656 |
| Nearest Fault (Name) | Santa Monica Fault |
| Region | Transverse Ranges and Los Angeles Basin |

| | |
|--------------------------------------|----------------------------------|
| Fault Type | B |
| Slip Rate (mm/year) | 1.00000000 |
| Slip Geometry | Left Lateral - Reverse - Oblique |
| Slip Type | Moderately / Poorly Constrained |
| Down Dip Width (km) | 13.00000000 |
| Rupture Top | 0.00000000 |
| Rupture Bottom | 13.00000000 |
| Dip Angle (degrees) | -75.00000000 |
| Maximum Magnitude | 6.60000000 |
| Alquist-Priolo Fault Zone | No |
| Landslide | No |
| Liquefaction | No |
| Preliminary Fault Rupture Study Area | No |
| Tsunami Inundation Zone | No |

Economic Development Areas

| | |
|-------------------------------|---------------|
| Business Improvement District | None |
| Hubzone | Not Qualified |
| Opportunity Zone | No |
| Promise Zone | None |
| State Enterprise Zone | None |

Housing

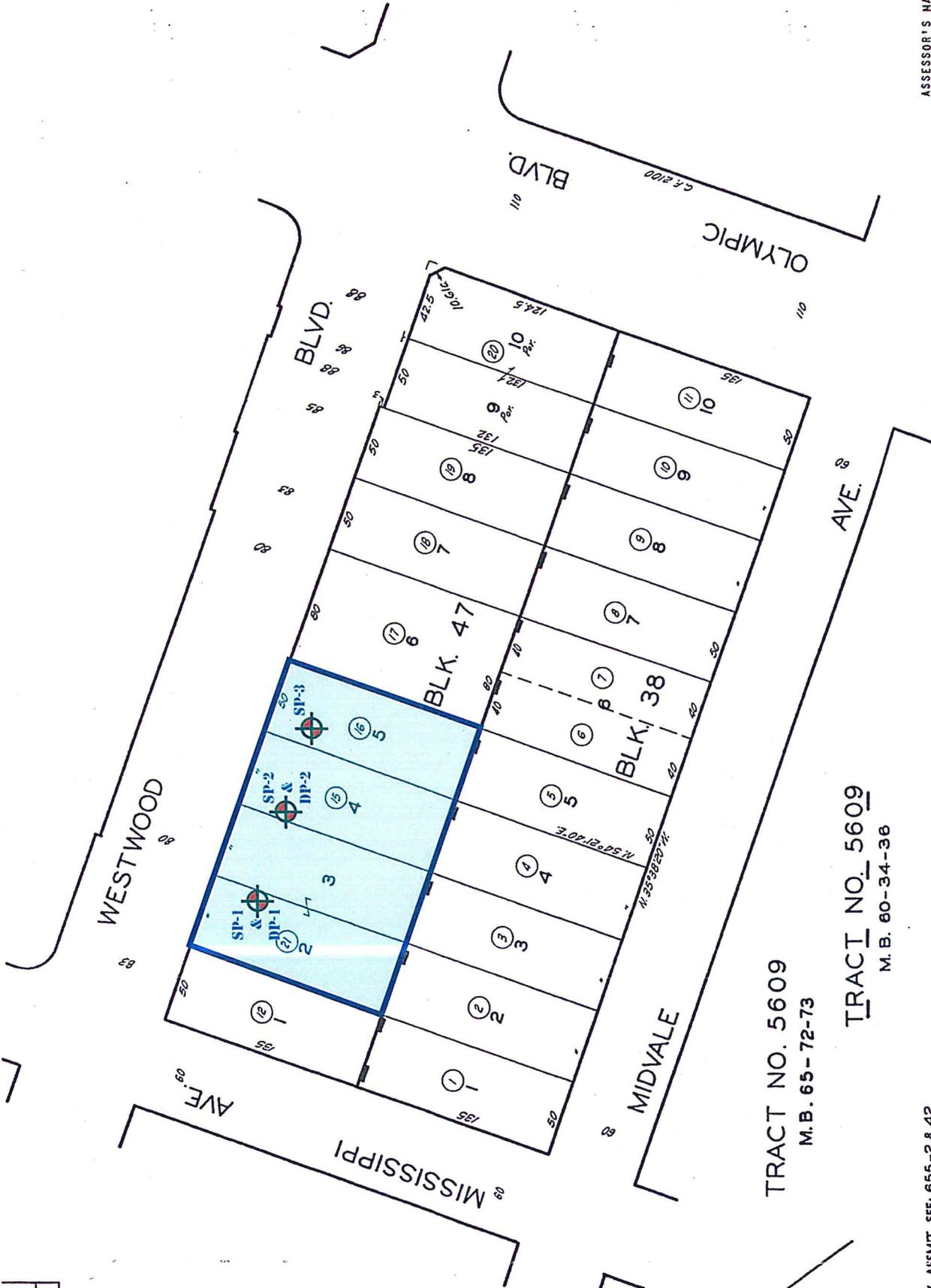
| | |
|------------------------------------|---|
| Direct all Inquiries to | Housing+Community Investment Department |
| Telephone | (866) 557-7368 |
| Website | http://hcidla.lacity.org |
| Rent Stabilization Ordinance (RSO) | No |
| Ellis Act Property | No |

Public Safety

| | |
|-----------------------------|------------------|
| Police Information | |
| Bureau | West |
| Division / Station | West Los Angeles |
| Reporting District | 835 |
| Fire Information | |
| Bureau | West |
| Batallion | 9 |
| District / Fire Station | 59 |
| Red Flag Restricted Parking | No |

22 | 1
1" = 60'

CA 1001/410
66093

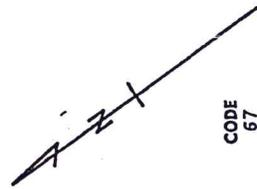


TRACT NO. 5609

M.B. 65-72-73

TRACT NO. 5609

M.B. 60-34-36

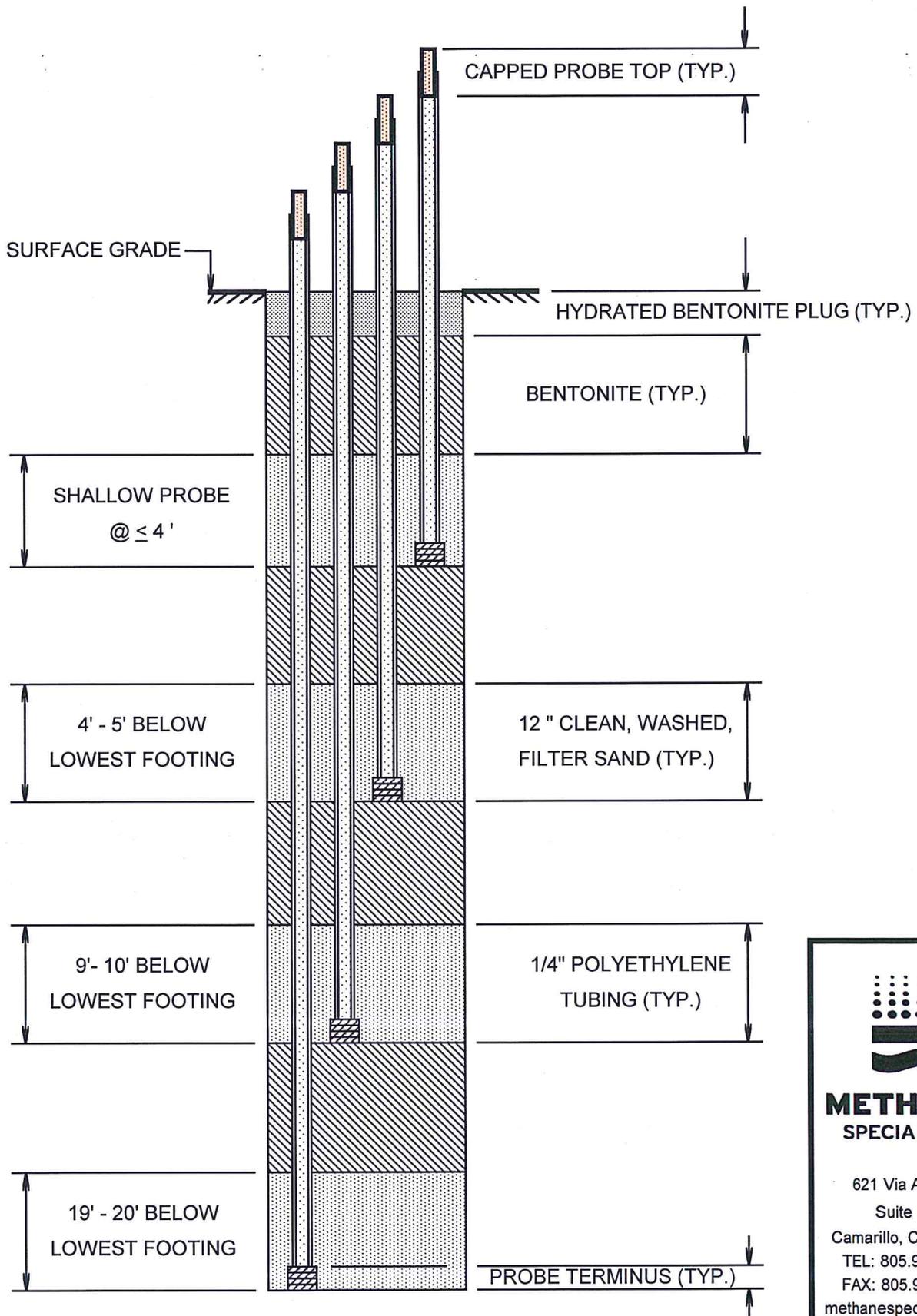


CODE
57

FOR PREV. ASSMT. SEE: 655-2 & 42

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

2107-2120 S. WESTWOOD BLVD., LOS ANGELES, CA - 90025



**METHANE
SPECIALISTS**

621 Via Alondra
Suite 610
Camarillo, CA - 93012
TEL: 805.987.5356
FAX: 805.987.3968
methanespecialists.com

TEMPORARY MULTI-STAGE GAS MONITORING PROBES FOR METHANE

FORM 1 (CONTINUED) - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

P/BC 2014-101

Part 2: Test Data - Shallow Soil Gas Test and Gas Probe Test

Site Address: 2107 - 2121 S. Westwood Blvd., Los Angeles, CA - 90025

Job # 3854

Description of Gas Analysis Instrument(s):

Instrument Name and Model: RKI Eagle

Instrument Accuracy: 500 ppm/v.

City of Los Angeles Testing License #: 24876

Page 1 of 1

| Date | Time | Probe Set # | Stablized CH4 Concentration (ppm/v) | Pressure (inches of water-column) | Probe Depth (feet) | Descriptions/Comments: <i>no perched water met</i> <i>- Refusal was met as noted below</i> <i>- Groundwater was not met as noted below</i> |
|-------------------|--------------|-------------|-------------------------------------|-----------------------------------|--------------------|--|
| <i>02/06/2020</i> | <i>12:20</i> | <i>SP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |
| <i>"</i> | <i>12:15</i> | <i>DP-1</i> | <i>500</i> | <i>< 0.1</i> | <i>5</i> | <i><= Maximum Stabilized CH4 Reading => 1% LEL</i> |
| <i>"</i> | <i>12:10</i> | <i>DP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>10</i> | |
| <i>"</i> | <i>12:05</i> | <i>DP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>20</i> | <i>(Refusal was met, and groundwater level was not met)</i> |
| <i>"</i> | <i>12:40</i> | <i>SP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |
| <i>"</i> | <i>12:35</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>5</i> | |
| <i>"</i> | <i>12:30</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>10</i> | |
| <i>"</i> | <i>12:25</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>20</i> | <i>(Refusal was met, and groundwater level was not met)</i> |
| <i>"</i> | <i>12:50</i> | <i>SP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |
| <i>02/07/2020</i> | <i>8:35</i> | <i>SP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |
| <i>"</i> | <i>8:30</i> | <i>SP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>5</i> | |
| <i>"</i> | <i>8:25</i> | <i>DP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>10</i> | |
| <i>"</i> | <i>8:15</i> | <i>DP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>20</i> | |
| <i>"</i> | <i>8:55</i> | <i>SP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |
| <i>"</i> | <i>8:50</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>5</i> | |
| <i>"</i> | <i>8:45</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>10</i> | |
| <i>"</i> | <i>8:40</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>20</i> | |
| <i>"</i> | <i>9:00</i> | <i>SP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |

INSTRUMENTATION CALIBRATION RECORD:

WATER ENCOUNTERED: (Y) (N)

DEPTH: (see above)

DATE: 02/06/2020 TIME: 12:00 P.M.

INIT: RC

REFUSAL: (Y) (N)

DEPTH: (see above)

DATE: 02/07/2020 TIME: 8:00 A.M.

INIT: RC

COMMENTS: "< 500 ppmv" <=> "Non-Detect" <=> "ND"

DATE: _____ TIME: _____

INIT: _____

TESTER: Ramon Camacho

TABLE 1B - MITIGATION REQUIREMENTS FOR METHANE BUFFER ZONE

| SITE DESIGN LEVEL | | LEVEL I | | LEVEL II | | LEVEL III | | LEVEL IV | | LEVEL V |
|--|--------------------------------|------------------------------------|-----|-------------|-----|---------------|-----|----------------|-----|---------------|
| DESIGN METHANE CONCENTRATION (ppm/v) | | 0 - 100 | | 101 - 1,000 | | 1,001 - 5,000 | | 5,001 - 12,500 | | >12,500 |
| DESIGN METHANE PRESSURE (inches of water column) | | ≤2" | >2" | ≤2" | >2" | ≤2" | >2" | ≤2" | >2" | ALL PRESSURES |
| PASSIVE SYSTEM | DE-WATERING SYSTEM * | | | X* | | X* | | X* | X* | X* |
| | SUB-SLAB VENT SYSTEM | PERFORATED HORIZONTAL PIPES | | X | | X | | X | X | X |
| | | GRAVEL BLANKET UNDER MEMBRANE | | 2" | | 3" | | 3" | 2" | 4" |
| | | GRAVEL THICKNESS SURROUNDING PIPES | | 2" | | 3" | | 3" | 2" | 4" |
| | | VENT RISERS + | | X+ | | X+ | | X+ | X+ | X+ |
| | IMPERVIOUS MEMBRANE | | | X | | X | | X | X | X |
| ACTIVE SYSTEM | SUB-SLAB VENT SYSTEM | MECHANICAL EXTRACTION SYSTEM + | | | | | | | X+ | X+ |
| | LOWEST OCCUPIED SPACE SYSTEM | GAS DETECTION SYSTEM | | | | X | | X | X | X |
| | | MECHANICAL VENTILATION SYSTEM | | X | | X | | X | X | X |
| | | ALARM SYSTEM | | X | | X | | X | X | X |
| CONTROL PANEL | | | X | | X | | X | X | X | |
| MISC. SYSTEM | TRENCH DAM | | | X | | X | | X | X | X |
| | CONDUIT OR CABLE SEAL FITTINGS | | | X | | X | | X | X | X |
| | ADDITIONAL VENT RISERS + | | | | | | | | | X+ |

- X => Required, as per the Methane Code of the City of Los Angeles.
- * => De-Watering not required when the maximum historical high groundwater table elevation, or projected post-construction groundwater level, is more than twelve inches below the bottom of the perforated horizontal pipes.
- + => Vent risers maximum spacing shall be less than, or equal to, 100 Linear Feet, measured between vent risers.

FORM 1 - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

P/BC 2014-101

Part 1: Certification Sheet

Site Address: 2107-2121 S. Westwood Blvd., Los Angeles, CA - 90025 Job No. 3854
 Legal Description: Tract: TR 5609 Lot(s): 2, 3, 4, & 5 Block: 2
 Building Use: new 5-story apartment building to be built over 2 subterranean parking levels

| | |
|---|---|
| Name of Architect, Engineer, or Geologist: Kirby N. Arriola, P.E. | Architect's, Engineer's or Geologist's Stamp  |
| Mailing Address: Methane Specialists 5210 Lewis Road, Suite 1, Agoura Hills, CA - 91301 | |
| Telephone: (805) 987-5356 | |
| Name of Testing Laboratory: Methane Specialists | |
| City Test Lab License #: <u>24876</u> Telephone: (805) 987-5356 | |

I hereby certify that I have tested the above site for the purposes of methane mitigation and that all procedures were conducted by a City of Los Angeles licensed testing agency in conformity with the requirements of the LADBS Information Bulletin P/BC 2014 -101. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the architect, engineer or geologist whose signature is affixed hereon.

Signed: *Kirby N. Arriola* Date: 7 Feb 2020

Required Data: lowest Floor level is ~ 20' below surface grade (bsg) ~ 0' above est'd. Hist. Ground Water ~ 20' bsg

- * Project is in the (~~Methane Zone~~) or (**Methane Buffer Zone**). (lowest depth drilled is ~ 20' bsg)
- * Depth of Groundwater observed during testing: > 0' below the Impervious Membrane (at ~ 20' below surface)
- * Depth of Historical High Ground Water Table Elevation*: > 0' below the Impervious Membrane (at ~ 20' bsg)
- * Design Methane Concentration**: 500 parts per million in volume (ppm/v). (i.e.: 1% LEL)
- * Design Methane Pressure Value***: < 2.0 inches of water column.
- * Site Design Level: (Level I, **Level II**, Level III, Level IV, Level V) with < 2.0 inches of water column

Dewatering:

- * Dewatering (is) (**is not**) required for methane mitigation per Section 91.7104.3.7. (subject to **Final Geotech Report**)
- * Pump discharge rate not provided cubic feet per minute per reference geology or soil report:

dated: _____

Additional Investigation:

- * Additional Investigation (was) (**was not**) conducted. (by **Methane Specialists**)

Latest Grading on Site:

- * Date of last grading on site (was) (**was not**) more than 30 days before Site Testing.

Notes:

- * Historical High Ground Water Table Elevation shall mean the highest recorded elevation of ground water based on historical records and field investigations as determined by the engineer for the methane mitigation system.
- ** Design Methane Concentration shall mean the highest recorded measured methane concentration from either Shallow Soil Gas Test or any Probe Set on the site.
- *** Design Methane Pressure shall mean the highest total pressure measured for any Gas Probe Set on the site.

February 7, 2020
Job # J3854

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Methane Specialists is pleased to submit this report with the results of our subsurface methane investigation for the project mentioned above. The purpose of the investigation was to measure subsurface soil gas concentrations and pressures of methane at the subject site to determine site-specific methane mitigation requirements prescribed by the City of Los Angeles Department of Building and Safety (Division 71 of the Los Angeles Building Code). This investigation was conducted in accordance with our proposal dated January 10, 2020.

Project Information

The Project Site is on an approximately 27,018 square-foot parcel (0.62 acre), in the City of Los Angeles. This Project proposes the construction of a new 5-story apartment building to be built over 2 subterranean parking levels. Refusal was met in boring down to a minimum of approximately 20 feet, (bsg), at both deep probesets, DP-1 and DP-2. Actual ground water was not met while drilling down to a depth of at least 20 feet, bsg, at both deep probesets. A geotechnical report was not provided to us prior to the writing of this report. Historical ground water is taken to be at least greater than 20 feet, bsg, in the project area. This would be approximately greater than zero (0) feet below where an impermeable membrane could be required to be installed under the lowest parking level slab, at approximately twenty (20) feet, bsg.

The site is within an area which the City of Los Angeles designates as a Methane Buffer Zone (Source: ZIMAS Parcel Profile Report (enclosed)).

City of Los Angeles Methane Requirements

Requirements for control of methane intrusion in the City of Los Angeles are specified in Division 71 of Article 1, Chapter IX of the Los Angeles Municipal Code (“Division 71”). Since the project is within the Methane Buffer Zone, the Los Angeles Department of Building and Safety (LADBS) has the authority to withhold permits for construction unless detailed plans for adequate protection against methane intrusion are submitted, if testing leads to methane mitigation being required.

The level of methane protection required depends upon the “design methane concentration,” which is defined in Division 71 as “the highest concentration of methane gas found during site testing.” Site testing is required to determine the design concentration, unless the developer accepts the most stringent methane mitigation requirements (“Level V”). If site testing is performed (e.g., to document that a lower level of mitigation is justified), then it must follow a protocol published by the Department of Building and Safety, “Site Testing Standards for Methane” (P/BC 2014-101, November 30, 2014).

P/BC 2014-101 prescribes a three-step process for methane evaluation:

- (1) Scheduling site testing either before or 30 days after any site grading;
- (2) Conducting shallow soil gas tests (not less than 4 feet, bsg); and
- (3) Installing and using multiple-depth gas probe sets where the highest concentrations of soil gases are expected to be found

For the first step, site testing was scheduled for February 6, and 7, 2020. Methane Specialists also notified Underground Service Alert of Southern California to mark the site for underground utilities, and the utilities were subsequently marked and cleared.

For the second step, P/BC 2014-101 requires one shallow sampling location for every 10,000 square feet, or portion thereof, of site area, with a minimum of two shallow soil gas probe locations. Since the parcel area is approximately 27,018 square feet, three (3) shallow sampling locations were required.

The third step in the City’s methane evaluation process is to collect a minimum of two samples at multiple depths, and at least one multiple-depth probeset per every 20,000 square feet, or portion thereof. Thus, the minimum of three (3) multiple-depth deep gas probe sets were also required.

Shallow Soil Gas Probe Testing

City Guidelines require that one shallow-depth probe be installed for every 10,000 square feet of site area where the highest concentration of soil gas is most likely to be found, with a minimum of two shallow gas probes, regardless of the total area of the site. Since the total square footage of the parcel is approximately 27,018 square feet, Methane Specialists installed the required minimum of three (3) shallow methane probes at a depth of 4 feet bsg (see Probe Location Map).

The three shallow gas probes (SP-1, SP-2 and SP-3) were drilled and installed, starting on February 6, 2020. Methane Specialists used a direct-push drill rig to hydraulically drive a 1.50-inch rod into the ground to a depth of approximately 4 feet, bsg. A ¼" polyethylene probe was then inserted into the boreholes. Approximately six inches of sand was placed in the boreholes, above and below the probe, to provide a sampling area. Bentonite was then added to the top of each of the boreholes. A hydrated bentonite plug was then placed above the bentonite, in each borehole, to form a seal. Methane Specialists recorded all the readings. (see attached Probe Detail)

Shallow probe site testing was conducted on February 6, and 7, 2020.

Multiple-Depth Gas Probe Set Testing

City Guidelines also require that one multiple-depth deep probe set be installed for every 20,000 square feet of site area where the highest concentration of soil gas is most likely to be found, with a minimum of two multiple-depth deep gas probe sets, regardless of the total area of the site. Since the total area of the site is approximately 27,018 square feet, Methane Specialists drilled and installed the required two (2) multiple-depth deep probesets (DP-1 and DP-2), also starting on February 6, 2020.

The multiple-depth deep probes were also installed using direct-push drilling equipment in the same manner as were the shallow gas probes. The deep probes were installed as triple-well clusters, for both DP-1, and DP-2. Refusal was met at 20 feet, bsg, of both the DP-1 and DP-2 deep probesets. In all cases, at each probe depth, approximately twelve inches of sand was placed in the borehole around each of the probes. Each sand layer, of each probe, was separated by a layer of bentonite, between the sampling elevations. A hydrated, bentonite, plug was then placed onto the top of each borehole to form a seal.

Multiple-depth probe site testing was similarly conducted on February 6, and 7, 2020.

Sampling and Analysis

For field data sampling and analysis, Methane Specialists measured these probes for methane with a RKI Eagle portable, gas-sampling meter. The lower limit for reporting methane levels with the RKI Eagle is 500 ppmv (parts per million by volume).

The RKI Eagle was calibrated against standard calibrant samples by trained Methane Specialists staff members.

The probe pressures were all measured with a Dwyer Magnehelic Differential Pressure Gauge with a minimum scale division of 0.1 inch of water (H₂O).

Results of Shallow Gas Probe and Multiple-Depth Gas Probe Analysis

The attached Form 1 shows the results of the analysis of both the shallow, and the multiple, depth deep probe sets.

Recommendations

In summary, for this project located in the Methane Buffer Zone, one detectable reading of methane was recorded while testing at this site. As per Table 1B (enclosed), this project falls under Design Level II, with less than 2 inches of water-column gas-pressure. In accordance with said Methane Code Table 1B, this project requires no methane mitigation system.

Disclaimer

All discussion in this report is based on information provided by the client, as well as data and conditions, as they existed at the time and date of testing at the site. Should any detail, or condition, change from that original information, then, re-consideration of the conclusions in this report could become justified. Methane Specialists cannot be held accountable for the consequences of relevant information which was not previously provided. Nor can Methane Specialists be held accountable for the consequences of changes in the project scope, or of project site conditions.

This report has been prepared for the sole use of the client, exclusively, for the completion of the subject project, alone. No other application, or interpretation, of this report is to be granted, or implied, or otherwise made, without first obtaining direct, written permission, exclusively from Methane Specialists.

Respectfully,
Methane Specialists



Kirby N. Arriola, P.E. (C-31416)

INDEX OF ENCLOSURES

PARCEL PROFILE REPORT

METHANE PROBE LOCATION MAP

TYPICAL METHANE PROBE SET DETAIL

FORM 1, PART 2 – TEST DATA

TABLE 1 –MITIGATION REQUIREMENTS

FORM 1, PART 1 – CERTIFIED RESULTS



City of Los Angeles Department of City Planning

1/10/2020 PARCEL PROFILE REPORT

PROPERTY ADDRESSES

2107 S WESTWOOD BLVD
2109 S WESTWOOD BLVD
2111 S WESTWOOD BLVD

ZIP CODES

90025

RECENT ACTIVITY

None

CASE NUMBERS

CPC-2018-7546-CPU
CPC-2014-1457-SP
CPC-1992-41-HD
CPC-1992-40-ZC
CPC-1992-39-SUD
CPC-1978-27677
CPC-1974-25468
CPC-12652
ORD-186108
ORD-183497
ORD-171859
ORD-171492
ORD-171227
ORD-160340
ORD-152046
ORD-147820
ORD-129279
ORD-121730
ZA-2009-3144-CUB
ZA-19XX-7215
ZA-1992-1206-CUB
ENV-2014-1458-EIR-SE-CE
ENV-2009-3145-MND
ENV-2005-8253-ND
ENV-2002-478-CE
ED-75-154-ZC-HD
ND-93-12-ZC
OB-10346
AFF-55840
AFF-55805

Address/Legal Information

| | |
|------------------------------|-------------------------|
| PIN Number | 126B153 133 |
| Lot/Parcel Area (Calculated) | 6,754.6 (sq ft) |
| Thomas Brothers Grid | PAGE 632 - GRID C5 |
| Assessor Parcel No. (APN) | 4322001021 |
| Tract | TR 5609 |
| Map Reference | M B 65-72/73 (SHTS 5-6) |
| Block | 47 |
| Lot | 2 |
| Arb (Lot Cut Reference) | None |
| Map Sheet | 126B153 |

Jurisdictional Information

| | |
|--------------------------|--------------------|
| Community Plan Area | West Los Angeles |
| Area Planning Commission | West Los Angeles |
| Neighborhood Council | Westside |
| Council District | CD 5 - Paul Koretz |
| Census Tract # | 2672.00 |
| LADBS District Office | West Los Angeles |

Planning and Zoning Information

| | |
|---|---|
| Special Notes | None |
| Zoning | C4-1VL-POD |
| Zoning Information (ZI) | ZI-2256 Westwood / Pico ZI-2192 West Los Angeles Transportation Improvement and Mitigation ZI-2452 Transit Priority Area in the City of Los Angeles |
| General Plan Land Use | Neighborhood Commercial |
| General Plan Note(s) | Yes |
| Hillside Area (Zoning Code) | No |
| Specific Plan Area | West Los Angeles Transportation Improvement and Mitigation |
| Subarea | None |
| Special Land Use / Zoning | None |
| Design Review Board | No |
| Historic Preservation Review | No |
| Historic Preservation Overlay Zone | None |
| Other Historic Designations | None |
| Other Historic Survey Information | None |
| Mills Act Contract | None |
| CDO: Community Design Overlay | None |
| CPIO: Community Plan Imp. Overlay | None |
| Subarea | None |
| CUGU: Clean Up-Green Up | None |
| HCR: Hillside Construction Regulation | No |
| NSO: Neighborhood Stabilization Overlay | No |
| POD: Pedestrian Oriented Districts | Westwood / Pico |
| RFA: Residential Floor Area District | None |
| RIO: River Implementation Overlay | No |
| SN: Sign District | No |
| Streetscape | No |

| | |
|------------------------------------|--------|
| Adaptive Reuse Incentive Area | None |
| Affordable Housing Linkage Fee | |
| Residential Market Area | High |
| Non-Residential Market Area | High |
| Transit Oriented Communities (TOC) | Tier 2 |
| RPA: Redevelopment Project Area | None |
| Central City Parking | No |
| Downtown Parking | No |
| Building Line | None |
| 500 Ft School Zone | No |
| 500 Ft Park Zone | No |

Assessor Information

| | |
|------------------------------|---------------------------------------|
| Assessor Parcel No. (APN) | 4322001021 |
| APN Area (Co. Public Works)* | 0.310 (ac) |
| Use Code | 1100 - Commercial - Store - One Story |
| Assessed Land Val. | \$2,160,296 |
| Assessed Improvement Val. | \$170,943 |
| Last Owner Change | 11/07/2016 |
| Last Sale Amount | \$9 |
| Tax Rate Area | 67 |
| Deed Ref No. (City Clerk) | 2-541 |
| | 1494342 |
| | 1419965 |
| | 1130977 |

Building 1

| | |
|-------------------------|------------------------|
| Year Built | 1928 |
| Building Class | D5A |
| Number of Units | 0 |
| Number of Bedrooms | 0 |
| Number of Bathrooms | 0 |
| Building Square Footage | 7,136.0 (sq ft) |
| Building 2 | No data for building 2 |
| Building 3 | No data for building 3 |
| Building 4 | No data for building 4 |
| Building 5 | No data for building 5 |

Additional Information

| | |
|---|---------------------|
| Airport Hazard | None |
| Coastal Zone | None |
| Farmland | Area Not Mapped |
| Urban Agriculture Incentive Zone | YES |
| Very High Fire Hazard Severity Zone | No |
| Fire District No. 1 | No |
| Flood Zone | None |
| Watercourse | No |
| Hazardous Waste / Border Zone Properties | No |
| Methane Hazard Site | Methane Buffer Zone |
| High Wind Velocity Areas | No |
| Special Grading Area (BOE Basic Grid Map A-13372) | Yes |
| Wells | None |

Seismic Hazards

| | |
|--------------------------------|---|
| Active Fault Near-Source Zone | |
| Nearest Fault (Distance in km) | 0.87544656 |
| Nearest Fault (Name) | Santa Monica Fault |
| Region | Transverse Ranges and Los Angeles Basin |

| | |
|--------------------------------------|----------------------------------|
| Fault Type | B |
| Slip Rate (mm/year) | 1.00000000 |
| Slip Geometry | Left Lateral - Reverse - Oblique |
| Slip Type | Moderately / Poorly Constrained |
| Down Dip Width (km) | 13.00000000 |
| Rupture Top | 0.00000000 |
| Rupture Bottom | 13.00000000 |
| Dip Angle (degrees) | -75.00000000 |
| Maximum Magnitude | 6.60000000 |
| Alquist-Priolo Fault Zone | No |
| Landslide | No |
| Liquefaction | No |
| Preliminary Fault Rupture Study Area | No |
| Tsunami Inundation Zone | No |

Economic Development Areas

| | |
|-------------------------------|---------------|
| Business Improvement District | None |
| Hubzone | Not Qualified |
| Opportunity Zone | No |
| Promise Zone | None |
| State Enterprise Zone | None |

Housing

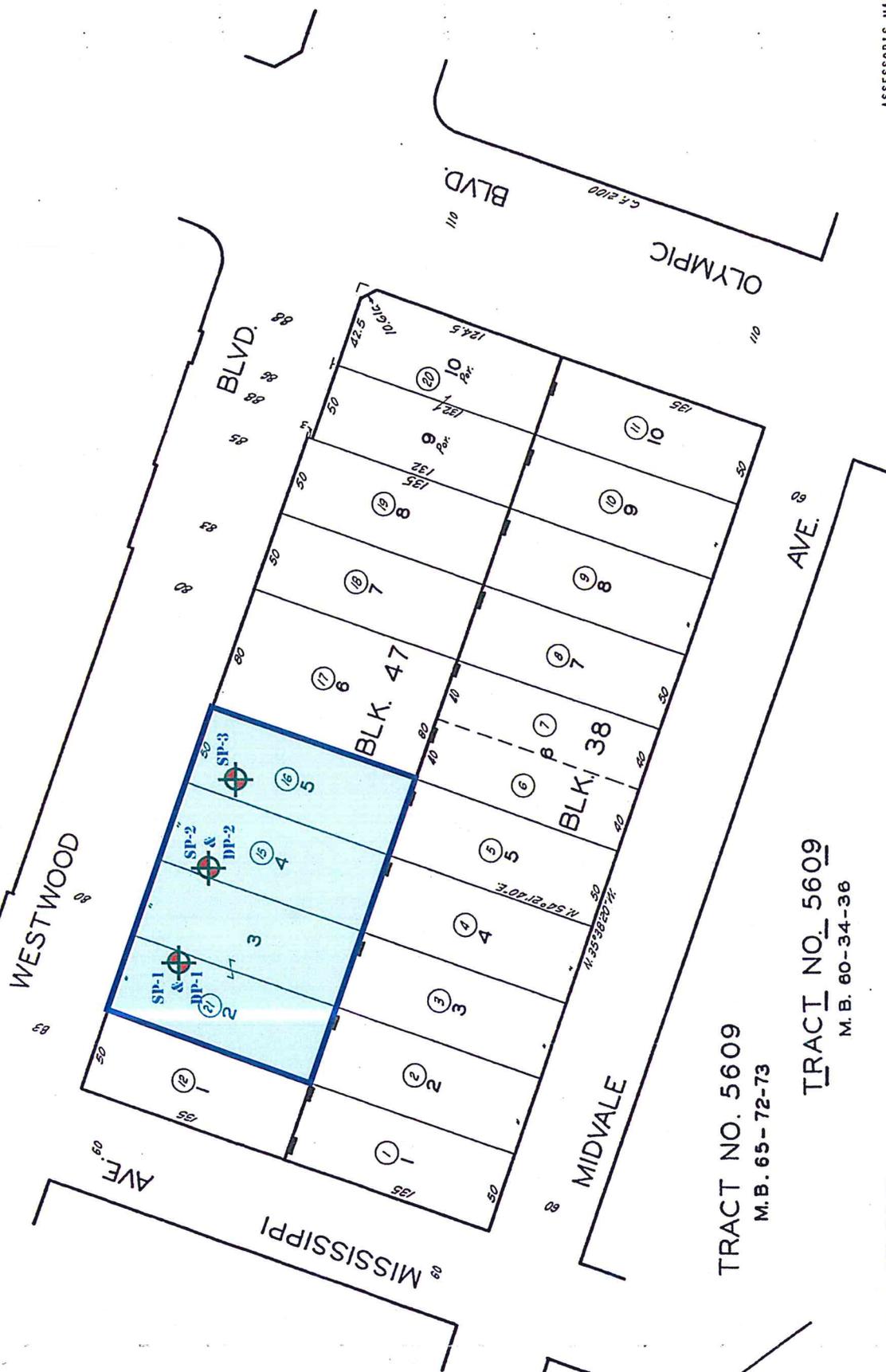
| | |
|------------------------------------|---|
| Direct all Inquiries to | Housing+Community Investment Department |
| Telephone | (866) 557-7368 |
| Website | http://hcidla.lacity.org |
| Rent Stabilization Ordinance (RSO) | No |
| Ellis Act Property | No |

Public Safety

| | |
|-----------------------------|------------------|
| Police Information | |
| Bureau | West |
| Division / Station | West Los Angeles |
| Reporting District | 835 |
| Fire Information | |
| Bureau | West |
| Batallion | 9 |
| District / Fire Station | 59 |
| Red Flag Restricted Parking | No |

22 | 1
1" = 60'

FIG 009
C.A. 1/15/01/5



TRACT NO. 5609
M.B. 65-72-73

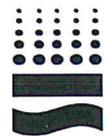
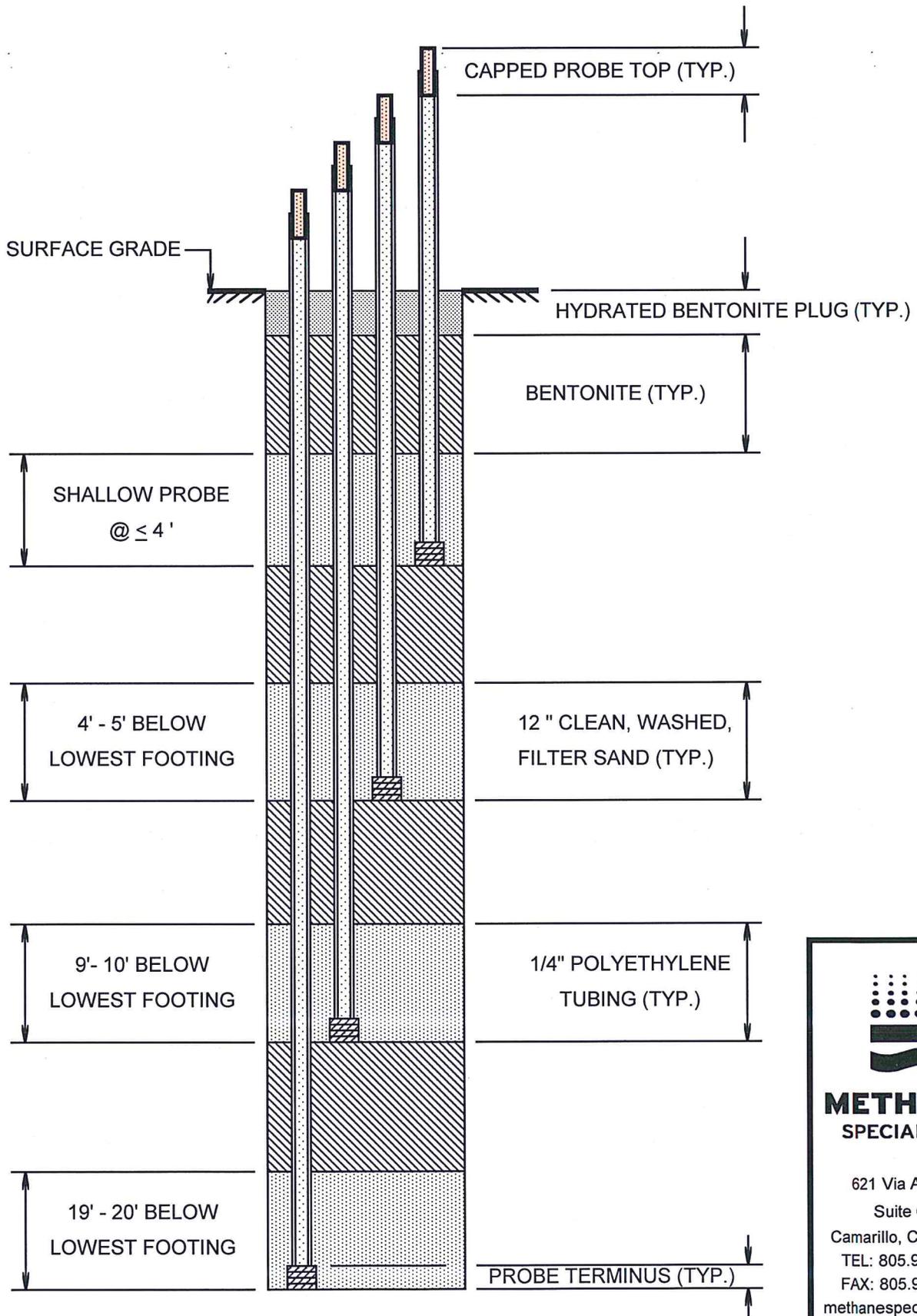
TRACT NO. 5609
M.B. 60-34-36

CODE
67

FOR PREV. ASSM'T. SEE: 655-2 & 42

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

2107-2120 S. WESTWOOD BLVD., LOS ANGELES, CA - 90025



**METHANE
SPECIALISTS**

621 Via Alondra
Suite 610
Camarillo, CA - 93012
TEL: 805.987.5356
FAX: 805.987.3968
methanespecialists.com

TEMPORARY MULTI-STAGE GAS MONITORING PROBES FOR METHANE

FORM 1 (CONTINUED) - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

P/BC 2014-101

Part 2: Test Data - Shallow Soil Gas Test and Gas Probe Test

Site Address: 2107 - 2121 S. Westwood Blvd., Los Angeles, CA - 90025

Job # 3854

Description of Gas Analysis Instrument(s):

Instrument Name and Model: RKI Eagle

Instrument Accuracy: 500 ppm/v.

City of Los Angeles Testing License #: 24876

Page 1 of 1

| Date | Time | Probe Set # | Stablized CH4 Concentration (ppm/v) | Pressure (inches of water-column) | Probe Depth (feet) | Descriptions/Comments: <i>no perched water met</i> <i>- Refusal was met as noted below</i> <i>- Groundwater was not met as noted below</i> |
|-------------------|--------------|-------------|-------------------------------------|-----------------------------------|--------------------|--|
| <i>02/06/2020</i> | <i>12:20</i> | <i>SP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |
| <i>"</i> | <i>12:15</i> | <i>DP-1</i> | <i>500</i> | <i>< 0.1</i> | <i>5</i> | <i><= Maximum Stabilized CH4 Reading => 1% LEL</i> |
| <i>"</i> | <i>12:10</i> | <i>DP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>10</i> | |
| <i>"</i> | <i>12:05</i> | <i>DP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>20</i> | <i>(Refusal was met, and groundwater level was not met)</i> |
| <i>"</i> | <i>12:40</i> | <i>SP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |
| <i>"</i> | <i>12:35</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>5</i> | |
| <i>"</i> | <i>12:30</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>10</i> | |
| <i>"</i> | <i>12:25</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>20</i> | <i>(Refusal was met, and groundwater level was not met)</i> |
| <i>"</i> | <i>12:50</i> | <i>SP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |
| <i>02/07/2020</i> | <i>8:35</i> | <i>SP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |
| <i>"</i> | <i>8:30</i> | <i>SP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>5</i> | |
| <i>"</i> | <i>8:25</i> | <i>DP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>10</i> | |
| <i>"</i> | <i>8:15</i> | <i>DP-1</i> | <i>< 500</i> | <i>< 0.1</i> | <i>20</i> | |
| <i>"</i> | <i>8:55</i> | <i>SP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |
| <i>"</i> | <i>8:50</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>5</i> | |
| <i>"</i> | <i>8:45</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>10</i> | |
| <i>"</i> | <i>8:40</i> | <i>DP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>20</i> | |
| <i>"</i> | <i>9:00</i> | <i>SP-2</i> | <i>< 500</i> | <i>< 0.1</i> | <i>4</i> | |

INSTRUMENTATION CALIBRATION RECORD: WATER ENCOUNTERED: (Y) (N) DEPTH: (see above)

DATE: 02/06/2020 TIME: 12:00 P.M. INIT: RC REFUSAL: (Y) (N) DEPTH: (see above)

DATE: 02/07/2020 TIME: 8:00 A.M. INIT: RC COMMENTS: "< 500 ppmv" <=> "Non-Detect" <=> "ND"

DATE: _____ TIME: _____ INIT: _____ TESTER: Ramon Camacho

TABLE 1B - MITIGATION REQUIREMENTS FOR METHANE BUFFER ZONE

| SITE DESIGN LEVEL | | LEVEL I | | LEVEL II | | LEVEL III | | LEVEL IV | | LEVEL V | |
|--|--------------------------------|------------------------------------|-----|-------------|-----|---------------|-----|----------------|-----|---------------|----|
| DESIGN METHANE CONCENTRATION (ppm/v) | | 0 - 100 | | 101 - 1,000 | | 1,001 - 5,000 | | 5,001 - 12,500 | | >12,500 | |
| DESIGN METHANE PRESSURE (inches of water column) | | ≤2" | >2" | ≤2" | >2" | ≤2" | >2" | ≤2" | >2" | ALL PRESSURES | |
| PASSIVE SYSTEM | DE-WATERING SYSTEM * | | | X* | | X* | | X* | X* | X* | |
| | SUB-SLAB VENT SYSTEM | PERFORATED HORIZONTAL PIPES | | X | | X | | X | X | X | |
| | | GRAVEL BLANKET UNDER MEMBRANE | | 2" | | 3" | | 3" | 2" | 4" | 4" |
| | | GRAVEL THICKNESS SURROUNDING PIPES | | 2" | | 3" | | 3" | 2" | 4" | 4" |
| | | VENT RISERS + | | X+ | | X+ | | X+ | X+ | X+ | X+ |
| | IMPERVIOUS MEMBRANE | | | X | | X | | X | X | X | X |
| ACTIVE SYSTEM | SUB-SLAB VENT SYSTEM | MECHANICAL EXTRACTION SYSTEM + | | | | | | | X+ | X+ | |
| | LOWEST OCCUPIED SPACE SYSTEM | GAS DETECTION SYSTEM | | | | X | | X | X | X | X |
| | | MECHANICAL VENTILATION SYSTEM | | X | | X | | X | X | X | X |
| | | ALARM SYSTEM | | X | | X | | X | X | X | X |
| CONTROL PANEL | | | X | | X | | X | X | X | X | |
| MISC. SYSTEM | TRENCH DAM | | | X | | X | | X | X | X | |
| | CONDUIT OR CABLE SEAL FITTINGS | | | X | | X | | X | X | X | |
| | ADDITIONAL VENT RISERS + | | | | | | | | | X+ | |

- X ⇒ Required, as per the Methane Code of the City of Los Angeles.
- * ⇒ De-Watering not required when the maximum historical high groundwater table elevation, or projected post-construction groundwater level, is more than twelve inches below the bottom of the perforated horizontal pipes.
- + ⇒ Vent risers maximum spacing shall be less than, or equal to, 100 Linear Feet, measured between vent risers.

FORM 1 - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

P/BC 2014-101

Part 1: Certification Sheet

Site Address: 2107-2121 S. Westwood Blvd., Los Angeles, CA - 90025 Job No. 3854
 Legal Description: Tract: TR 5609 Lot(s): 2, 3, 4, & 5 Block: 2
 Building Use: new 5-story apartment building to be built over 2 subterranean parking levels

| | |
|---|---|
| Name of Architect, Engineer, or Geologist: Kirby N. Arriola, P.E. | Architect's, Engineer's or Geologist's Stamp  |
| Mailing Address: Methane Specialists 5210 Lewis Road, Suite 1, Agoura Hills, CA - 91301 | |
| Telephone: (805) 987-5356 | |
| Name of Testing Laboratory: Methane Specialists | |
| City Test Lab License #: 24876 | |
| Telephone: (805) 987-5356 | |

I hereby certify that I have tested the above site for the purposes of methane mitigation and that all procedures were conducted by a City of Los Angeles licensed testing agency in conformity with the requirements of the LADBS Information Bulletin P/BC 2014 -101. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the architect, engineer or geologist whose signature is affixed hereon.

Signed: *Kirby N. Arriola* Date: 7 Feb 2020

Required Data: lowest Floor level is ~ 20' below surface grade (bsg) ~ 0' above est'd. Hist. Ground Water ~ 20' bsg

- * Project is in the (~~Methane Zone~~) or (**Methane Buffer Zone**). (lowest depth drilled is ~ 20' bsg)
- * Depth of Groundwater observed during testing: > 0' below the Impervious Membrane (at ~ 20' below surface)
- * Depth of Historical High Ground Water Table Elevation*: > 0' below the Impervious Membrane (at ~ 20' bsg)
- * Design Methane Concentration**: 500 parts per million in volume (ppm/v). (i.e.: 1 % LEL)
- * Design Methane Pressure Value***: < 2.0 inches of water column.
- * Site Design Level: (Level II, **Level II**, Level III, Level IV, Level V) with < 2.0 inches of water column

Dewatering:

- * Dewatering (is) (**is not**) required for methane mitigation per Section 91.7104.3.7. (subject to **Final Geotech Report**)
- * Pump discharge rate not provided cubic feet per minute per reference geology or soil report:

dated: _____

Additional Investigation:

- * Additional Investigation (was) (**was not**) conducted. (by **Methane Specialists**)

Latest Grading on Site:

- * Date of last grading on site (was) (**was not**) more than 30 days before Site Testing.

Notes:

- * Historical High Ground Water Table Elevation shall mean the highest recorded elevation of ground water based on historical records and field investigations as determined by the engineer for the methane mitigation system.
- ** Design Methane Concentration shall mean the highest recorded measured methane concentration from either Shallow Soil Gas Test or any Probe Set on the site.
- *** Design Methane Pressure shall mean the highest total pressure measured for any Gas Probe Set on the site.