MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

To: Sumner Wilson
   Monitoring Operations Manager
   Science & Technology Advancement

Laboratory No. 2109004-01
Requested By Sumner Wilson
Rule No. NA
ST No. NA
Report Created 04/09/2021

Sampling Location
   Eastwood Elementary School
   99 Meander
   Irvine, CA

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS, AND RESULTS

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)
Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS) - Tentatively Identified

See attached results and sample information.

Reviewed By: Stephen Dutz
   Date reviewed: 2021.04.09 17:33:45 -07'00'

Approved By: Aaron Katzenstein
   Date approved: 2021.04.13 06:51:03 -07'00'

Stephen Dutz
   Principal A.Q. Chemist
   Laboratory Services

Aaron Katzenstein
   Senior Manager
   Laboratory Services
   (909) 396-2219

Digitally signed by Stephen Dutz
Date: 2021.04.09 17:33:45 -07'00'

Digitally signed by Aaron Katzenstein
Date: 2021.04.13 06:51:03 -07'00'

Form 2.0
### Analyte, Unit

<table>
<thead>
<tr>
<th>Analyte, Unit</th>
<th>Result</th>
<th>MDL</th>
<th>MRL</th>
<th>Ambient Avg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1-Trichloroethane, ppbv</td>
<td>ND</td>
<td>0.009</td>
<td>0.03</td>
<td>0.1</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane, ppbv</td>
<td>ND</td>
<td>0.02</td>
<td>0.07</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>1,1,2-Trichloroethane, ppbv</td>
<td>ND (QX)</td>
<td>0.03</td>
<td>0.09</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>1,1-Dichloroethane, ppbv</td>
<td>ND</td>
<td>0.01</td>
<td>0.04</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>1,1-Dichloroethylene, ppbv</td>
<td>ND</td>
<td>0.03</td>
<td>0.09</td>
<td></td>
</tr>
<tr>
<td>1,2,4-Trichlorobenzene, ppbv</td>
<td>ND (QX)</td>
<td>0.08</td>
<td>0.2</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene, ppbv</td>
<td>J (0.04)</td>
<td>0.02</td>
<td>0.05</td>
<td>0.1</td>
</tr>
<tr>
<td>1,2-Dibromoethane, ppbv</td>
<td>ND</td>
<td>0.02</td>
<td>0.08</td>
<td></td>
</tr>
<tr>
<td>1,2-Dichlorobenzene, ppbv</td>
<td>ND (QX)</td>
<td>0.04</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>1,2-Dichloroethane, ppbv</td>
<td>J (0.02)</td>
<td>0.01</td>
<td>0.04</td>
<td></td>
</tr>
<tr>
<td>1,2-Dichloropropane, ppbv</td>
<td>ND</td>
<td>0.01</td>
<td>0.03</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>1,3,5-Trimethylbenzene, ppbv</td>
<td>ND</td>
<td>0.03</td>
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<td>0.1</td>
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<tr>
<td>1,3-Butadiene, ppbv</td>
<td>ND</td>
<td>0.03</td>
<td>0.08</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>1,3-Dichlorobenzene, ppbv</td>
<td>ND (QX)</td>
<td>0.03</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>1,4-Dichlorobenzene, ppbv</td>
<td>ND (QX)</td>
<td>0.04</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>1,4-Dioxane, ppbv</td>
<td>ND (QX)</td>
<td>0.04</td>
<td>0.1</td>
<td>&lt;0.1</td>
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<tr>
<td>2-Butanone (MEK), ppbv</td>
<td>0.3</td>
<td>0.06</td>
<td>0.2</td>
<td>0.3</td>
</tr>
<tr>
<td>2-Hexanone (MBK), ppbv</td>
<td>ND (QX)</td>
<td>0.05</td>
<td>0.1</td>
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<tr>
<td>2-Propanal, ppbv</td>
<td>0.2 (QX)</td>
<td>0.05</td>
<td>0.2</td>
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<tr>
<td>Acetone, ppbv</td>
<td>3.9</td>
<td>0.3</td>
<td>0.9</td>
<td>7.7</td>
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<tr>
<td>Benzene, ppbv</td>
<td>0.1</td>
<td>0.01</td>
<td>0.03</td>
<td>0.6</td>
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<tr>
<td>Benzyl chloride, ppbv</td>
<td>ND (QX)</td>
<td>0.03</td>
<td>0.08</td>
<td>&lt;0.1</td>
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<tr>
<td>Bromodichloromethane, ppbv</td>
<td>ND</td>
<td>0.01</td>
<td>0.04</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Bromoform, ppbv</td>
<td>ND</td>
<td>0.04</td>
<td>0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Bromomethane, ppbv</td>
<td>ND (QX)</td>
<td>0.03</td>
<td>0.08</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Carbon disulfide, ppbv</td>
<td>ND</td>
<td>0.04</td>
<td>0.1</td>
<td>&lt;0.1</td>
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<tr>
<td>Carbon Tetrachloride, ppbv</td>
<td>0.07</td>
<td>0.009</td>
<td>0.03</td>
<td>0.1</td>
</tr>
<tr>
<td>Chlorobenzene, ppbv</td>
<td>ND</td>
<td>0.02</td>
<td>0.05</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Chloroethane, ppbv</td>
<td>ND</td>
<td>0.02</td>
<td>0.06</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Chloroform, ppbv</td>
<td>0.05</td>
<td>0.008</td>
<td>0.02</td>
<td>&lt;0.1</td>
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<tr>
<td>Chloromethane, ppbv</td>
<td>0.6</td>
<td>0.03</td>
<td>0.08</td>
<td>0.6</td>
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<tr>
<td>cis-1,2-Dichloroethylene, ppbv</td>
<td>ND</td>
<td>0.01</td>
<td>0.04</td>
<td></td>
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</tbody>
</table>
### Analyte, Unit

<table>
<thead>
<tr>
<th>Analyte, Unit</th>
<th>Result</th>
<th>MDL</th>
<th>MRL</th>
<th>Ambient Avg</th>
</tr>
</thead>
<tbody>
<tr>
<td>cis-1,3-Dichloropropene, ppbv</td>
<td>ND</td>
<td>0.03</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>Cyclohexane, ppbv</td>
<td>0.05 (LJ)</td>
<td>0.01</td>
<td>0.03</td>
<td>0.1</td>
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<tr>
<td>Dibromochloromethane, ppbv</td>
<td>ND</td>
<td>0.03</td>
<td>0.08</td>
<td>&lt;0.1</td>
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<tr>
<td>Dichlorodifluoromethane (Freon 12), ppbv</td>
<td>0.5</td>
<td>0.03</td>
<td>0.09</td>
<td>0.5</td>
</tr>
<tr>
<td>Dichlorotetrafluoroethane (Freon 114), ppbv</td>
<td>J (0.02)</td>
<td>0.02</td>
<td>0.06</td>
<td>&lt;0.1</td>
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<tr>
<td>Ethanol, ppbv</td>
<td>12 (LJ)</td>
<td>0.3</td>
<td>0.9</td>
<td>7.3</td>
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<tr>
<td>Ethyl Acetate, ppbv</td>
<td>ND (QX)</td>
<td>0.08</td>
<td>0.2</td>
<td>&lt;0.1</td>
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<tr>
<td>Ethylbenzene, ppbv</td>
<td>J (0.05)</td>
<td>0.02</td>
<td>0.07</td>
<td>0.2</td>
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<tr>
<td>Ethylene oxide, ppbv</td>
<td>0.08 (LJ)</td>
<td>0.02</td>
<td>0.06</td>
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<tr>
<td>Hexachloro-1,3-butadiene, ppbv</td>
<td>ND (QX)</td>
<td>0.07</td>
<td>0.2</td>
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<tr>
<td>Isopropanol, ppbv</td>
<td>1.1 (LJ)</td>
<td>0.3</td>
<td>0.9</td>
<td></td>
</tr>
<tr>
<td>m+p-Xylene, ppbv</td>
<td>J (0.08)</td>
<td>0.04</td>
<td>0.1</td>
<td>0.6</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone (MIBK), ppbv</td>
<td>ND</td>
<td>0.06</td>
<td>0.2</td>
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<tr>
<td>Methyl Methacrylate, ppbv</td>
<td>ND</td>
<td>0.05</td>
<td>0.2</td>
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<tr>
<td>Methyl tert-Butyl Ether (MTBE), ppbv</td>
<td>ND</td>
<td>0.02</td>
<td>0.07</td>
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</tr>
<tr>
<td>Methylene Chloride, ppbv</td>
<td>0.1</td>
<td>0.02</td>
<td>0.07</td>
<td>0.2</td>
</tr>
<tr>
<td>Naphthalene, ppbv</td>
<td>ND (QX)</td>
<td>0.09</td>
<td>0.3</td>
<td></td>
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<tr>
<td>n-Heptane, ppbv</td>
<td>J (0.06)</td>
<td>0.04</td>
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<td>0.2</td>
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<tr>
<td>n-Hexane, ppbv</td>
<td>0.08</td>
<td>0.01</td>
<td>0.04</td>
<td>0.1</td>
</tr>
<tr>
<td>o-Xylene, ppbv</td>
<td>ND</td>
<td>0.08</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>p-Ethyltoluene, ppbv</td>
<td>J (0.02)</td>
<td>0.02</td>
<td>0.06</td>
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</tr>
<tr>
<td>Propylene, ppbv</td>
<td>0.1</td>
<td>0.04</td>
<td>0.1</td>
<td>0.5</td>
</tr>
<tr>
<td>Styrene, ppbv</td>
<td>J (0.03)</td>
<td>0.02</td>
<td>0.06</td>
<td>0.1</td>
</tr>
<tr>
<td>Tetrachloroethylene, ppbv</td>
<td>ND</td>
<td>0.02</td>
<td>0.06</td>
<td></td>
</tr>
<tr>
<td>Tetrahydrofuran, ppbv</td>
<td>ND</td>
<td>0.03</td>
<td>0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Toluene, ppbv</td>
<td>0.2</td>
<td>0.03</td>
<td>0.1</td>
<td>1.6</td>
</tr>
<tr>
<td>trans-1,2-Dichloroethylene, ppbv</td>
<td>ND</td>
<td>0.02</td>
<td>0.05</td>
<td></td>
</tr>
<tr>
<td>trans-1,3-Dichloropropene, ppbv</td>
<td>ND</td>
<td>0.03</td>
<td>0.08</td>
<td></td>
</tr>
<tr>
<td>Trichloroethylene, ppbv</td>
<td>ND</td>
<td>0.01</td>
<td>0.04</td>
<td>&lt;0.2</td>
</tr>
<tr>
<td>Trichlorofluoromethane (Freon 11), ppbv</td>
<td>0.2</td>
<td>0.02</td>
<td>0.06</td>
<td>0.2</td>
</tr>
<tr>
<td>Trichlorotrifluoroethane (Freon 113), ppbv</td>
<td>0.06</td>
<td>0.01</td>
<td>0.04</td>
<td>0.1</td>
</tr>
<tr>
<td>Vinyl acetate, ppbv</td>
<td>J (0.1)</td>
<td>0.08</td>
<td>0.2</td>
<td>&lt;0.1</td>
</tr>
</tbody>
</table>
Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

<table>
<thead>
<tr>
<th>Analyte, Unit</th>
<th>Result</th>
<th>MDL</th>
<th>MRL</th>
<th>Ambient Avg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vinyl chloride, ppbv</td>
<td>ND</td>
<td>0.02</td>
<td>0.07</td>
<td>&lt;0.1</td>
</tr>
</tbody>
</table>
Laboratory No. 2109004-01 - continued
Sample Description 24 Hour, SILCO Canister 53453, AA Asphalt Irvine: Eastwood Elementary School.
Sample Date 03/29/2021  Received Date 03/31/2021  Analyzed Date 04/08/2021

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS) - Tentatively Identified

--TENTATIVELY IDENTIFIED COMPOUNDS--
CONCENTRATIONS ARE APPROXIMATED

<table>
<thead>
<tr>
<th>Analyte, Unit</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>No TICs Found, ppbv</td>
<td>0.0</td>
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</tbody>
</table>
DEFINITIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Definition</th>
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</thead>
<tbody>
<tr>
<td>MDL</td>
<td>Method Detection Limit</td>
</tr>
<tr>
<td>MRL</td>
<td>Method Reporting Limit</td>
</tr>
<tr>
<td>ND</td>
<td>Non-detect; Value is below MDL.</td>
</tr>
<tr>
<td>J</td>
<td>Value is between method detection and reporting limits.</td>
</tr>
<tr>
<td>QX</td>
<td>Does not meet QC criteria.</td>
</tr>
<tr>
<td>LJ</td>
<td>Identification of Analyte is Acceptable; Reported Value is an Estimate</td>
</tr>
</tbody>
</table>
SOUTHERN COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST

TO: SCAQMD LAB: ☑ OTHER: ☐

SOURCE NAME: AAA Asphalt I.D. No. ________________
Source Address: 99 Meander City: Irvine
Mailing Address: ______________________ City: ________________ Zip: 92620
Contact Person: ______________________ Title: ________________ Tel: ________________

Analysis Requested by: Sumner Wilson Date: 03/31/21
Approved by: Jason Low Office: ________________ Budget #: 44716
REASON REQUESTED: Court/Hearing Board ☐ Permit Pending ☐ Hazardous/Toxic Spill ☐ Suspected Violation ☑ Other ☑ near source monitoring

Sample Collected by: J Caldero Date: 03/31/21 Time: 1022 pst

REQUESTED ANALYSIS:

<table>
<thead>
<tr>
<th>Location</th>
<th>Can#</th>
<th>Start day / time / duration</th>
<th>Start vac</th>
<th>End vac</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastwood Elementary School</td>
<td>53453</td>
<td>03/29/21 / 00:00 / 1438 min</td>
<td>-30&quot; Hg</td>
<td>-2&quot; Hg</td>
</tr>
</tbody>
</table>

Relinquished by | Received by | Firm/Agency | Date | Time
J Caldero | shelf | SCAQMD Lab | 03/31/21 | 11:30
staff | R. Lopez | SCAQMD Lab | 03/13/21 | 10:37

Remarks:
Sn 209 orifice 399 box#4

AAA Asphalt Irvine: Eastwood Elementary School