

Appendix J-5

Hazardous Materials Investigation Report

May 5, 2022

Project No. 13226.004

Meridian Park West, LLC
1156 North Mountain Avenue
Upland, California 91786

Attention: Timothy Reeves / Adam Collier

Subject: **Hazardous Material (PCB / Treated Wood Waste) Investigation Report
Meridian – West Campus Upper Plateau
Riverside, California 92508**

Leighton Consulting, Inc. (Leighton) presents this report summarizing the results of a targeted hazardous materials investigation for potential PCB containing materials and treated wood waste (TTW) at the subject Site in Riverside County, California (see Site Location Map – **Figure 1**).

SCOPE OF WORK

The sampling was completed by Vista Environmental Consulting (VISTA), subcontractor to Leighton, with coordination, field oversight and project management by Leighton. Testing was completed on representative samples of the following materials:

- 1) Pole-mounted electrical transformers (PCBs);
- 2) Black electrical wrap (Askerals) (PCBs);
- 3) Capacitors on the ground near Building 5 (PCBs);
- 4) Wood Power Poles (limited SVOCs and limited metals);
- 5) Wood Perimeter Lighting Poles (limited SVOCs and limited metals);
- 6) Wood Security Lighting and Camera Poles (limited SVOCs and limited metals);
- 7) Wood Communication Poles (limited SVOCs and limited metals); and
- 8) Wood Framing for Electrical Substations (limited SVOCs and limited metals).

Attached Photos 1-7 (**Appendix A**) show the various sample collection activities.

RESULTS

Attached **Appendix B** is a copy of the VISTA report detailing the sampling and analytical procedures, as well as the results and recommendations associated with the investigation. Where certain buildings are referenced within the VISTA report, the locations of these building are shown on attached **Figure 2**.

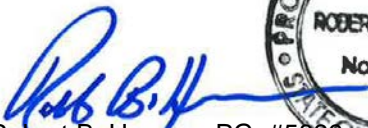
CONCLUSIONS & RECOMMENDATIONS


See **Appendix B**.

Should you have any questions regarding this report, please contact the undersigned at (909) 527-8785.

Respectfully submitted,

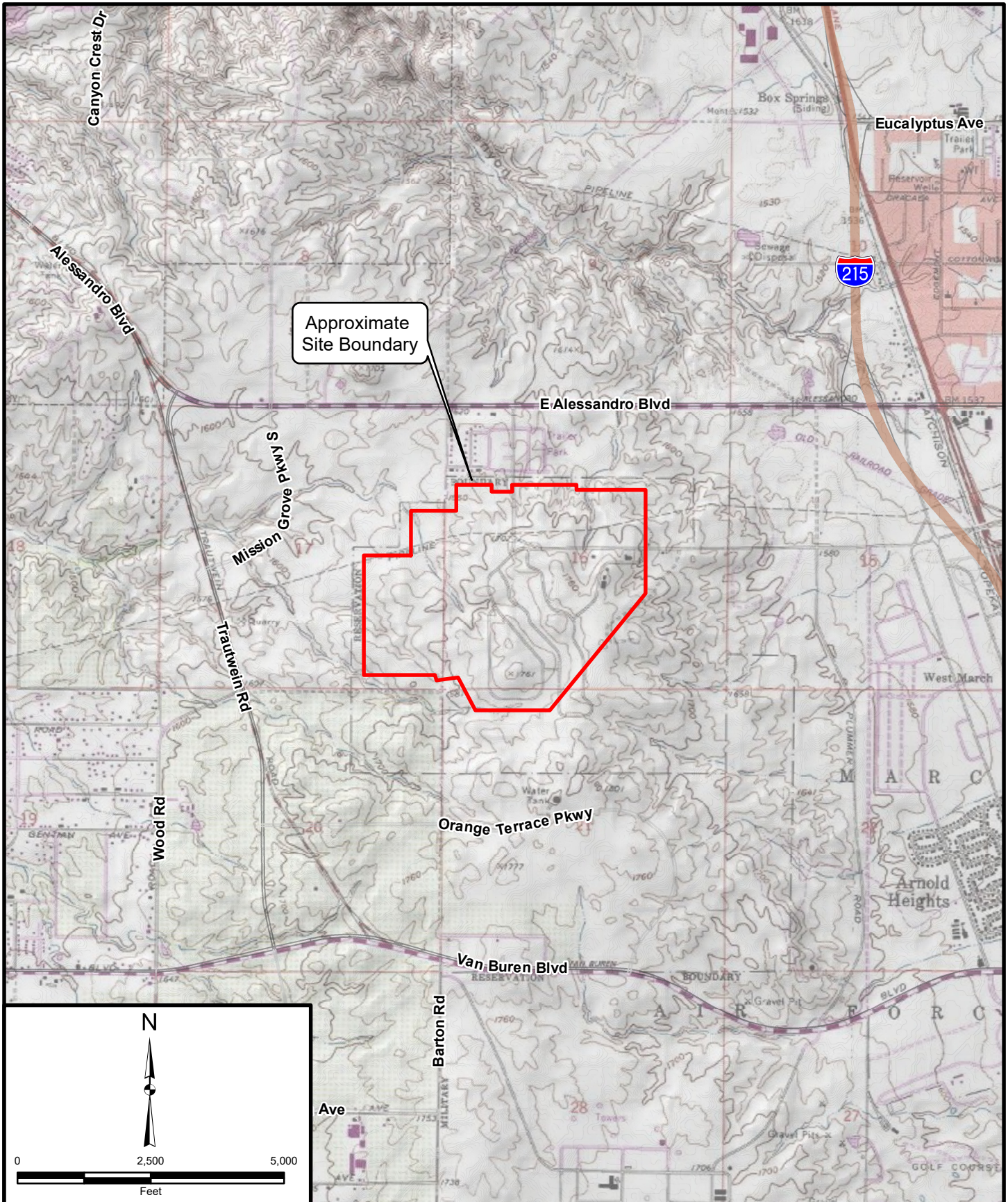
LEIGHTON CONSULTING, INC.


Robert B. Hansen, PG, #5839
Associate Environmental Geologist



Attachments: Figure 1 - Site Location Map
Figure 2 - Site Plan
Appendix A - Photographic Log
Appendix B - Vista Environmental Consulting Report

Distribution: Addressee



Project: 13226.003	Eng/Geol: RBH
Scale: 1" = 2,500'	Date: May 2022
Basemap: ESRI ArcGIS Online 2022	

SITE LOCATION MAP
 Meridian-West Campus, Upper Plateau
 Riverside, California

FIGURE 1





Project: 13226.003	Eng/Geol: RBH
Scale: 1" = 600'	Date: May 2022
Base Map: ESRI ArcGIS Online 2022	

SITE PLAN

Proposed Meridian Upper Plateau
Vista Grande Drive, Riverside, California

FIGURE 2





APPENDIX A
PHOTOGRAPHIC LOG

Client Name:
Meridian Park West, LLC

Site Location:
Meridian – West Campus Upper Plateau,
Riverside County, CA

Project No.
13226.004

Photo No. 1

View of Direction of Photo:

N/A

Description:

Electrical safing transformer prior to sampling.



Photo No. 2

View of Direction of Photo:

N/A

Description:

Opening top of pole mounted electrical transformer for sampling.



Client Name:
Meridian Park West, LLC

Site Location:
Meridian – West Campus Upper Plateau,
Riverside County, CA

Project No.
13226.004

Photo No. 3

View of Direction of Photo:

N/A

Description:

Sample of dielectric fluid from transformer collected.



Photo No. 4

View of Direction of Photo:

N/A

Description:

Sampling of black electrical feed wrap



Client Name: Meridian Park West, LLC	Site Location: Meridian – West Campus Upper Plateau, Riverside County, CA	Project No. 13226.004
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Photo No. 5
View of Direction of Photo: N/A
Description: Area east of Building No. 5 with small capacitors on the ground outside and inside rooms in background.



Photo No. 6
View of Direction of Photo: N/A
Description: Example of typical capacitor on the ground.



Client Name:
Meridian Park West, LLC

Site Location:
Meridian – West Campus Upper Plateau,
Riverside County, CA

Project No.
13226.004

Photo No. 7

View of Direction of Photo:

N/A

Description:

Sampling of treated wood pole





APPENDIX B
VISTA ENVIRONMENTAL CONSULTING REPORT



April 26, 2022

Robert Hansen
Associate Environmental Geologist
Leighton Consulting, Inc.
10532 Acacia Street, Suite B-6
Rancho Cucamonga, CA 91730

**RE: Hazardous Material (PCB/TWW) Investigation Results
March Air Reserve Base
Lewis – Meridian Upper Plateau Ordinance Area Project
Vista Project No. 21 0210 021**

Dear Mr. Hansen:

At the request of Leighton Consulting, Inc., Vista Environmental Consulting (Vista) performed a limited hazardous materials survey of the Upper Plateau Ordinance Area on the grounds of March Air Reserve Base in Riverside, California (the Project Site). The original investigation, dealing predominately with construction materials, such as asbestos-containing materials, lead-based paints and Universal Waste Rule items, was reported under separate cover, in the Vista Hazardous Materials Testing Report dated 17 January 2022.

As a follow-up to the original investigation, it was determined that additional testing of potential hazardous materials that were not associated with buildings was required to better characterize potential hazards at the project site. Potential hazards not related to buildings, which were identified in the original investigation, included potential PCB-containing items and potential treated wood waste. During this investigation, testing was performed for these two potential hazards, as follows:

1. Dielectric fluids within Pole-mounted transformers were tested for PCB content.
2. Black Electrical Feed Wrap associated with power poles were tested for PCB content.
3. Capacitors found on the ground within and just outside of Building 5 were tested for PCB content.
4. Wood Power Poles were tested to confirm that they are treated wood waste, but do not qualify to be federal hazardous waste as defined in 40 CFR 260-268 (the Resource Conservation and Recovery Act, generally referred to as RCRA).
5. Wood Perimeter Lighting Poles were tested to confirm that they are treated wood waste, but do not qualify to be federal hazardous waste as defined in 40 CFR 260-268 (the Resource Conservation and Recovery Act, generally referred to as RCRA).
6. Wood Security Lighting and Camera Poles were tested to confirm that they are treated wood waste, but do not qualify to be federal hazardous waste as defined in 40 CFR 260-268 (the Resource Conservation and Recovery Act, generally referred to as RCRA).

7. One Wood Communication Pole was tested to confirm that it was treated wood waste, but did not qualify to be federal hazardous waste as defined in 40 CFR 260-268 (the Resource Conservation and Recovery Act, generally referred to as RCRA).
8. Wood Framing for the Electrical Substation adjacent to Buildings 1 and 2 and the Electrical Substation East of Building 3 were tested to confirm that they are treated wood waste, but do not qualify to be federal hazardous waste as defined in 40 CFR 260-268 (the Resource Conservation and Recovery Act, generally referred to as RCRA).

Project scope included testing various non-building improvements and related materials to be impacted by proposed construction activities, which shall include demolition of most or all improvements within the project work area. Bulk testing for Treated Wood Waste components and bulk and oil testing for Polychlorinated Biphenyls (PCBs) were performed on 23 February 2022 by Vista employee Yvan Schmidt.

Results of the survey indicate that the following hazardous materials are present at the project site, as further described in Tables 1-8, which follow.

Table 1 - Hazardous Materials Summary – Pole-Mounted Transformers

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	ESTIMATED QUANTITY ¹
Dielectric Fluid	Yellow to Amber Oil	Pole-Mounted Transformers	PCB	42 Transformers (See Note 1)
Notes to Table 1: 1. One of three samples collected of pole-mounted transformer dielectric mineral oil was determined to contain 1.5 mg/kg of Aroclor 1260, well below the regulatory level of concern of 50 mg/kg set forth in 40 CFR 761. There was no PCB/Aroclor identified in either of the other two samples collected.				
<u>General Notes:</u> <u>TWW</u> = Treated Wood Waste <u>PCB</u> = Polychlorinated Biphenyls <u>LF</u> = Linear feet <u>mg</u> = Milligrams <u>SF</u> = Square feet <u>ug</u> = Micrograms				
¹ Order of Magnitude <i>ESTIMATED</i> Quantities and Locations <i>ARE NOT</i> to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documents and site visits must be submitted in writing <i>PRIOR</i> to bidding.				

Table 2 - Hazardous Materials Summary – Black Electric Feed Wrap

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	ESTIMATED QUANTITY ¹
There were no PCBs detected in any of the three samples of black electric feed wrap collected.				
Notes to Table 2: 1. See Table 1 for General Notes.				

Table 3 - Hazardous Materials Summary – Loose Capacitors at Building 5

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	ESTIMATED QUANTITY ¹
There were no PCBs detected in any of the three samples of loose capacitors collected at Building 5.				
Notes to Table 3:				
1. See Table 1 for General Notes.				

Table 4 - Hazardous Materials Summary – Wood Power Poles

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	QUANTITY
Power Poles	Brown w/Black Tar	Throughout Facility	Chromium 9.7 - 24 mg/kg Copper 11 - 140 mg/kg Anthracene 130 mg/kg Benzo(a)anthracene 160 mg/kg Benzo(b)fluoranthrene 130 mg/kg Chrysene 270 mg/kg Fluoranthene 140 - 1,900 mg/kg Pentachlorophenol 510 - 1,700 mg/kg Phenanthrene 1,700 mg/kg Pyrene 1,200 mg/kg	195 Poles
Notes to Table 4:				
1. See Table 1 for General Notes.				

Table 5 - Hazardous Materials Summary – Wood Perimeter Lighting Poles

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	QUANTITY
Perimeter Lighting Poles	Brown w/Black Tar	Adjacent to Perimeter Fencing Throughout Facility	Chromium 14 - 21 mg/kg Copper 11 - 20 mg/kg Fluoranthene 150 mg/kg Pentachlorophenol 1,100 – 6,400 mg/kg	113 Poles
Notes to Table 5:				
1. See Table 1 for General Notes.				

Table 6 - Hazardous Materials Summary – Wood Security Lighting and Camera Poles

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	QUANTITY
Security Lighting and Camera Poles	Brown w/Black Tar	Interspersed with Power Poles Throughout Facility	Chromium 1.1 mg/kg Copper 3.1 – 68 mg/kg Pentachlorophenol 710 mg/kg	66 Poles
Notes to Table 5:				
1. See Table 1 for General Notes.				

Table 7 - Hazardous Materials Summary – Wood Communications Poles

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	QUANTITY
Comms Poles	Brown w/Black Tar	Adjacent to Buildings 1 and 6	Arsenic 11 mg/kg Chromium 16 mg/kg Copper 4.3 mg/kg Fluoranthene 550 mg/kg Phenanthrene 500 mg/kg Pyrene 360 mg/kg	2 Poles
Notes to Table 5:				
1. See Table 1 for General Notes.				

Table 8 - Hazardous Materials Summary – Wood Framing for Electrical Substations

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	QUANTITY
Upright Main Support Poles	Brown w/Black Tar	Substations next to Buildings 2 and 3, Vertical Supports for Wooden Structure	Copper 520 mg/kg Pentachlorophenol 760 mg/kg	Entire Structures
Cross Members and Connector Planks	Discolored (grey) lumber (mainly 2x4s)	Substations next to Buildings 2 and 3, Horizontal and Diagonal Cross members and Lea Supports	Chromium 1.4 mg/kg Copper 5.6 mg/kg	Entire Structures
Notes to Table 5:				
1. See Table 1 for General Notes.				

SITE DESCRIPTION

The site is a portion of the former March Air Reserve Base (ARB), which was utilized for multiple purposes, mainly related to munitions storage and related support structures, during the time that the site was operational as either March Air Force Base (AFB) or March ARB. The far Eastern portions of the site include a Security Post as well as an Office/Barack and Kennels for a K-9 Unit.

Structures associated with the project site generally include munitions bunkers and related support structures and facilities. These are further described under separate cover in the aforementioned Hazardous Materials Testing Report dated 17 January 2022.

This assessment included the testing of loose items and suspect improvements not related to buildings (which had been previously assessed). This included a variety of treated wood poles related to power, communications, lighting and security, as well as pole-mounted transformers, electrical feed wraps and loose capacitors found on the ground in and around Building 5.

METHODOLOGY

Vista performed the hazardous materials investigation, including all field sampling, on 23 February 2022. All site work, visual observations and testing was performed by Vista employee Yvan Schmidt.

The following procedures and testing methods were followed when performing this hazardous materials investigation:

Sampling for PCBs was performed as required by the United States Environmental Protection Agency (USEPA), as outlined in 40 CFR 761. Each sample was collected as follows:

1. For transformer oil sampling, the following testing procedure was utilized:
 - a. All work started with electrical safing by Reel Electric, a licensed electrical contractor. Reel tested the lines on both sides of the pole upon which was mounted the subject transformer to be tested.
 - b. Reel Electric disconnected all primary and secondary leads to the transformer to be tested.
 - c. The subject transformer (of three mounted on each pole with transformers) was opened by disconnecting top fasteners, the lid was removed, and a sample was collected of the dielectric fluid, a mineral oil, within the subject transformer.
 - d. The Pyrex sample container with Teflon lid was sealed and labelled with a unique ID number, and all pertinent information was logged on the appropriate sampling form with chain-of-custody.
 - e. The subject transformer's lid was replaced and fasteners re-attached.

2. For electrical feed wire wrap, the following testing procedure was utilized:
 - a. Electrical feed wire wrap was tested from the same poles that Reel Electric had already confirmed were de-energized.
 - b. Each sample was collected by utilizing rubber-handled hard plastic pliers to remove a bulk sample of the subject black wrap, which was then placed in a Pyrex sample jar.
 - c. The Pyrex sample container with Teflon lid was sealed and labelled with a unique ID number, and all pertinent information was logged on the appropriate sampling form with chain-of-custody.

3. For capacitors, the following testing procedure was utilized:
 - a. Capacitors were manually collected as intact units (approximately three inches in diameter and six inches long) and placed directly into Ziplock-style sample bags.
 - b. The sample container sealed and labelled with a unique ID number, and all pertinent information was logged on the appropriate sampling form with chain-of-custody.

Sampling for treated wood was performed as required by the United States Environmental Protection Agency (USEPA), as outlined in 40 CFR 260-268, to ensure that the subject treated wood wastes were not federal hazardous wastes as defined therein. Each sample was collected as follows:

1. For all types of wood poles and lumber tested, the following testing procedure was utilized:
 - a. Stainless steel chisels were utilized to pry samples from the subject pole or piece of lumber. Pried samples were collected directly above a wide mouth Pyrex sample container with Teflon lid, allowing the sample to fall into the sample container.
 - b. The Pyrex sample container with Teflon lid was sealed and labelled with a unique ID number, and all pertinent information was logged on the appropriate sampling form with chain-of-custody.

All samples were delivered, under chain-of-custody, to Advanced Technology Laboratories, located at 3275 Walnut Avenue in Signal Hill, California, 90745 (tel: 562.989.4045). Advanced Technology Laboratories is accredited under the California Environmental Laboratory Accreditation Program (Cal/ELAP No. 1838).

Samples collected for PCBs were submitted for analysis in accordance with United States Environmental Protection Agency (USEPA) Method 8082.

Samples for treated wood were submitted for analysis to determine Arsenic, Chromium and Copper content in accordance with USEPA Method 6010B, and to determine potential Creosote components or Pentachlorophenol in accordance with USEPA Method 8270. Two of the samples collected for treated wood waste (Samples TW-03 and TW-09) were subjected to a second analysis, in order to determine if the waste stream associated with those samples was subject to the Resource Conservation and Recovery Act (RCRA; 40 CFR 260-268). These samples were subjected to the TCLP sample preparation, then again analyzed in accordance with USEPA Method 8270.

RESULTS

The results of the various samples collected for PCBs indicated the following:

1. No PCBs were identified within two of the three oil samples collected of the dielectric fluid (mineral oil) within pole-mounted transformers. The third sample of transformer oil collected indicated the presence of one PCB (Aroclor 1260), but at a concentration of 1.5 mg/kg, well below the significant regulatory level of 50 mg/kg. These results are further described in Table 1 in the Executive Summary, above.
2. No PCBs were identified within any of the three bulk samples collected of the black power feed wire wrap found where power lines come down from pole-mounted transformers. These results are further described in Table 2 in the Executive Summary, above.
3. No PCBs were identified within any of the three capacitor samples collected at Building 5. These results are further described in Table 3 in the Executive Summary, above.

The results of the various samples collected for wood treatment components indicated the following:

1. Limited amounts of copper and chromium, along with a number of organic compounds, were identified within the bulk samples collected of the wood power poles throughout the facility. The various organic compounds identified included pentachlorophenol and various polynuclear aromatic compounds indicating the presence of either Creosote or coal tar.
2. Limited amounts of copper and chromium, along with fluoranthene and pentachlorophenol, were identified within the bulk samples collected of the wood perimeter lighting poles found adjacent to the site's perimeter fencing around the facility.
3. Limited amounts of copper and chromium, along with pentachlorophenol, were identified within the bulk samples collected of the wood security lighting and camera poles found interspersed with power poles throughout the facility.
4. Limited amounts of arsenic, copper and chromium, along with three organic compounds were identified within the bulk sample collected of the wood communication support pole located to the South of Building 6. The three organic compounds identified included polynuclear aromatic compounds indicating the presence of either Creosote or coal tar.
5. Copper and pentachlorophenol were identified within the bulk sample collected of the wood pole upright supports located at the electrical substation adjacent to Building 2.
6. Limited amounts of Chromium and Copper were identified within the bulk sample collected of the lumber cross members (generally 2 x 4s) located at the electrical substations adjacent to Buildings 2 and 3.

Individual bulk sampling and analytical results and pertinent laboratory certifications can be found attached to this letter report.

CONCLUSIONS AND RECOMMENDATIONS

The conclusions and recommendations associated with this testing episode are separated into a section for PCBs and a section for Treated Wood Waste, below.

PCBs:

The results of the various bulk samples collected throughout the project site indicated that no PCBs were identified within any of the bulk samples collected of black electrical feed wire wrap found coming down from transformer-mounted power poles throughout the facility nor in any of the samples of loose capacitors found on the ground in and around Building 5.

The results for two of three samples collected of dielectric fluid (mineral oil) in pole-mounted transformers found throughout the facility indicated that no PCBs were identified within the oil samples collected. One of three samples collected of dielectric fluid (mineral oil) in pole-mounted transformers indicated the presence of one type of PCB, Aroclor 1260, at a concentration of 1.5 mg/kg. This is well below the standard of 50 mg/kg set forth in 40 CFR 761.

The dielectric fluid associated with the pole-mounted transformers is not a hazardous waste, as defined by 40 CFR 761. The disposal or recycling facility to which the pole-mounted transformers are to be taken should be notified, in writing, of these sampling results, including the fact that one of three transformers tested indicated the presence of Aroclor 1260 at a concentration of 1.5 mg/kg, for purposes of hazard communication.

In the event that transformer oil is found to have leaked into the soil below, the oil-impacted soil should be assessed for PCB content. No such leakage was observed at the various sampling locations visited on 23 February 2022.

Treated Wood Waste:

The lumber cross members, mostly 2" x 4" and 2" x 6" lumber, associated with the two electrical substations adjacent to Buildings 1 and 2 and East of Building 3 do not appear to have been treated, and may be removed and disposed of as construction debris.

All wood poles found throughout the facility, including all types of wood lighting and power poles, wood communication poles and the poles utilized for the upright portions of the two exterior electrical substations at the project site were found to contain chemical indications of being treated wood waste.

Two of the three samples collected of the perimeter fence lighting poles (Samples TW-3 and TW-9) indicated the presence of Pentachlorophenol at concentrations sufficient to warrant further analysis via the Toxicity Characteristic Leachate Procedure (TCLP) to determine if this potential waste stream is a federal hazardous waste as defined in 40 CFR 260-268 (RCRA), with the RCRA Waste Code D037. The results of both of these samples were well below the RCRA standard for Waste Code D037, and the waste stream is not a federal hazardous waste.

As a result, all wood poles found throughout the facility should be managed in accordance with California's Alternative Management Standards for treated wood waste, which is set forth in the California Health and Safety Code Sections 25230 through 25230.18. Treated wood poles can be

disposed of at landfills that are certified via the local Regional Water Quality Control Board to accept treated wood waste in accordance with the health and safety code sections mentioned above. California Waste Code 614 shall apply to this waste stream (there is no federal waste code).

LIMITATIONS AND EXCLUSIONS

The investigation and sampling performed was limited to accessible hazardous materials and the testing of representative areas as designated by Leighton Consulting, Inc. Subsurface investigations and investigations outside of the project scope areas were not included as part of this investigation.

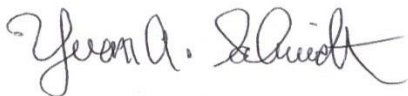
All material quantities reported herein are rough order of magnitude estimates and should not be used for bidding purposes. All contractors are responsible for accurately determining quantities and locations of materials identified in this report.

Findings, conclusions, recommendations and analytical data offered in this report have been derived from reviewing existing information provided by the client, visual survey of the accessible improvements and the outcome of sampling and analysis of suspected hazardous materials.

If materials having characteristics in common with those identified in this report or if other forms of suspect hazardous materials are discovered during work activities, maintenance personnel and/or contractors should be instructed to immediately cease work activities which may initiate an exposure episode, and notify the appropriate management personnel.

If you have any questions concerning the information contained in this report, please contact me on my cell at 714.746.7644.

Respectfully Submitted,
Vista Environmental Consulting



Yvan A. Schmidt
Senior Project Manager

Attachments:

- Appendix A - Laboratory Reports
- Appendix B - Laboratory Certifications

**ATTACHMENT A -
LABORATORY ANALYTICAL REPORTS**

April 11, 2022

Andrew Schmidt
Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807
Tel: (714) 289-2600
Fax:

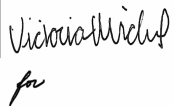
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 2200224
Client Reference : March ARB / 21 0210 021


Enclosed are the results for sample(s) received on February 23, 2022 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 Project.Management@atlglobal.com.

Sincerely,



Victoria Michel, Project Assistant
Victoria.Michel@atlglobal.com
Authorized to Release on 04/11/22 15:27 on Behalf of


Amy Leung
Laboratory Director

The test results in this report relate exclusively to the samples as received by the laboratory, and meet the requirements of the methodology under which they were reported; any exceptions are noted within the report and/ or case narrative.

The cover letter/ signature page and the case narrative are integral parts of this analytical report; the absence of any portion of the report renders the report invalid. This report shall not be reproduced except in full, and shall have the express written approval of the laboratory, and the original client firm to do so

The electronic signature on this report is signed by an authorized signatory of Advanced Technology Laboratories, and is intended to be legally binding as the equivalent of a handwritten signature.



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
O-1	2200224-01	Non-Aqueous Liq	2/23/22 8:30	2/23/22 12:48
W-1	2200224-02	Soil	2/23/22 8:35	2/23/22 12:48
TW-1	2200224-03	Soil	2/23/22 8:55	2/23/22 12:48
TW-2	2200224-04	Soil	2/23/22 8:55	2/23/22 12:48
TW-3	2200224-05	Soil	2/23/22 8:55	2/23/22 12:48
O-2	2200224-06	Non-Aqueous Liq	2/23/22 9:25	2/23/22 12:48
W-2	2200224-07	Soil	2/23/22 9:30	2/23/22 12:48
TW-4	2200224-08	Soil	2/23/22 10:10	2/23/22 12:48
TW-5	2200224-09	Soil	2/23/22 10:10	2/23/22 12:48
TW-6	2200224-10	Soil	2/23/22 10:10	2/23/22 12:48
O-3	2200224-11	Non-Aqueous Liq	2/23/22 10:20	2/23/22 12:48
W-3	2200224-12	Soil	2/23/22 10:25	2/23/22 12:48
TW-7	2200224-13	Soil	2/23/22 10:35	2/23/22 12:48
TW-8	2200224-14	Soil	2/23/22 10:35	2/23/22 12:48
TW-9	2200224-15	Soil	2/23/22 10:35	2/23/22 12:48
TW-10	2200224-16	Soil	2/23/22 10:45	2/23/22 12:48
TW-11	2200224-17	Soil	2/23/22 11:10	2/23/22 12:48
TW-12	2200224-18	Soil	2/23/22 11:15	2/23/22 12:48



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Notes and Definitions

S4	Surrogate was diluted out.
S16	Surrogate recovery is outside the laboratory acceptance limit. Re-extraction is not possible due to insufficient sample.
S12	Surrogate recovery outside in-house established limit but within method default criteria.
S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
M6	Matrix spike analyte was diluted out.
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.
H1	Sample was received past holding time.
D10	Sample required dilution due to dark sample
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.



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: O-1

Lab ID: 2200224-01

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1221	ND	2.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1232	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1242	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1248	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1254	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1260	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
<i>Surrogate: Decachlorobiphenyl</i>	<i>72.6 %</i>	<i>0 - 87</i>		B2B1190	02/24/2022	<i>02/24/22 22:14</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>65.3 %</i>	<i>0 - 103</i>		B2B1190	02/24/2022	<i>02/24/22 22:14</i>	

Client Sample ID: W-1

Lab ID: 2200224-02

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1221	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1232	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1242	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1248	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1254	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1260	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
<i>Surrogate: Decachlorobiphenyl</i>	<i>36.2 %</i>	<i>0 - 87</i>		B2B1196	02/24/2022	<i>03/02/22 20:41</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>34.2 %</i>	<i>0 - 103</i>		B2B1196	02/24/2022	<i>03/02/22 20:41</i>	



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

Client Sample ID: TW-1
Lab ID: 2200224-03

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 14:22	
Chromium	16	1.0	1	B2B1183	02/24/2022	02/25/22 14:22	
Copper	22	2.0	1	B2B1183	02/24/2022	02/25/22 14:22	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-1
Lab ID: 2200224-03

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Fluoranthene	140000	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Pentachlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>23 - 102</i>		B2B1160	02/23/2022	<i>02/28/22 21:05</i>	<i>S4</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>	<i>3 - 138</i>		B2B1160	02/23/2022	<i>02/28/22 21:05</i>	<i>S4</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>	<i>18 - 105</i>		B2B1160	02/23/2022	<i>02/28/22 21:05</i>	<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>38.0 %</i>	<i>34 - 106</i>		B2B1160	02/23/2022	<i>02/28/22 21:05</i>	



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-1

Lab ID: 2200224-03

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: 2-Fluorophenol</i>	0%	16 - 94		B2B1160	02/23/2022	02/28/22 21:05	S4
<i>Surrogate: 4-Terphenyl-d14</i>	84.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 21:05	
<i>Surrogate: Nitrobenzene-d5</i>	0%	23 - 102		B2B1160	02/23/2022	02/28/22 21:05	S4
<i>Surrogate: Phenol-d6</i>	0%	14 - 104		B2B1160	02/23/2022	02/28/22 21:05	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-2

Lab ID: 2200224-04

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:25	
Chromium	1.1	1.0	1	B2B1183	02/24/2022	02/25/22 15:25	
Copper	64	2.0	1	B2B1183	02/24/2022	02/25/22 15:25	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-2
Lab ID: 2200224-04

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Pentachlorophenol	710000	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>23 - 102</i>		B2B1160	02/23/2022	02/28/22 21:32	S4
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>	<i>3 - 138</i>		B2B1160	02/23/2022	02/28/22 21:32	S4
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>	<i>18 - 105</i>		B2B1160	02/23/2022	02/28/22 21:32	S4
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>30.0 %</i>	<i>34 - 106</i>		B2B1160	02/23/2022	02/28/22 21:32	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-2

Lab ID: 2200224-04

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: 2-Fluorophenol</i>	0%	16 - 94		B2B1160	02/23/2022	02/28/22 21:32	S4
<i>Surrogate: 4-Terphenyl-d14</i>	80.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 21:32	
<i>Surrogate: Nitrobenzene-d5</i>	0%	23 - 102		B2B1160	02/23/2022	02/28/22 21:32	S4
<i>Surrogate: Phenol-d6</i>	0%	14 - 104		B2B1160	02/23/2022	02/28/22 21:32	S4



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

Client Sample ID: TW-3

Lab ID: 2200224-05

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:28	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:28	
Copper	21	2.0	1	B2B1183	02/24/2022	02/25/22 15:28	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10



Certificate of Analysis

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Lab ID: 2200224-05

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Pentachlorophenol	6400000	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Phenanthrene	150000	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>23 - 102</i>		B2B1160	02/23/2022	02/28/22 21:59	S4
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>	<i>3 - 138</i>		B2B1160	02/23/2022	02/28/22 21:59	S4
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>	<i>18 - 105</i>		B2B1160	02/23/2022	02/28/22 21:59	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
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Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-3

Lab ID: 2200224-05

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorobiphenyl	38.0 %	34 - 106		B2B1160	02/23/2022	02/28/22 21:59	
Surrogate: 2-Fluorophenol	0%	16 - 94		B2B1160	02/23/2022	02/28/22 21:59	S4
Surrogate: 4-Terphenyl-d14	63.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 21:59	
Surrogate: Nitrobenzene-d5	0%	23 - 102		B2B1160	02/23/2022	02/28/22 21:59	S4
Surrogate: Phenol-d6	0%	14 - 104		B2B1160	02/23/2022	02/28/22 21:59	S4

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
1,2-Dichlorobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
1,3-Dichlorobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
1,4-Dichlorobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4,5-Trichlorophenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4,6-Trichlorophenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4-Dichlorophenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4-Dimethylphenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4-Dinitrophenol	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4-Dinitrotoluene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,6-Dinitrotoluene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Chloronaphthalene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Chlorophenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Methylnaphthalene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Methylphenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Nitroaniline	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Nitrophenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
3,3'-Dichlorobenzidine	ND	0.05	1	B2D1163	04/05/2022	04/05/22 19:46	H1
3-Nitroaniline	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4,6-Dinitro-2-methylphenol	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Bromophenyl-phenylether	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Chloro-3-methylphenol	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Chloroaniline	ND	0.05	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Chlorophenyl-phenylether	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
3/4-Methylphenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Methylphenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Nitroaniline	ND	0.05	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Nitrophenol	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Acenaphthene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1



Certificate of Analysis

Vista Environmental
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Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-3

Lab ID: 2200224-05

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Anthracene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzo(a)anthracene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzo(a)pyrene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzo(b)fluoranthene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzo(g,h,i)perylene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzo(k)fluoranthene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzoic acid	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzyl alcohol	ND	0.05	1	B2D1163	04/05/2022	04/05/22 19:46	H1
bis(2-chloroethoxy)methane	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
bis(2-Chloroethyl)ether	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
bis(2-chloroisopropyl)ether	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
bis(2-ethylhexyl)phthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Butylbenzylphthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Chrysene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Di-n-butylphthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Di-n-octylphthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Dibenz(a,h)anthracene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Dibenzofuran	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Diethyl phthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Dimethyl phthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Fluoranthene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Fluorene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Hexachlorobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Hexachlorobutadiene	ND	0.05	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Hexachlorocyclopentadiene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Hexachloroethane	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Indeno(1,2,3-cd)pyrene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Isophorone	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
N-Nitroso-di-n propylamine	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
N-Nitrosodiphenylamine	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Naphthalene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Nitrobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Pentachlorophenol	0.66	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Phenanthrene	0.01	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Phenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Pyrene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Pyridine	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1

Surrogate: 1,2-Dichlorobenzene-d4	15.8 %	21 - 92	B2D1163	04/05/2022	04/05/22 19:46	S10
Surrogate: 2,4,6-Tribromophenol	19.3 %	24 - 113	B2D1163	04/05/2022	04/05/22 19:46	S10



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Client Sample ID: TW-3
Lab ID: 2200224-05

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Chlorophenol-d4	13.5 %	14 - 86		B2D1163	04/05/2022	04/05/22 19:46	S10
Surrogate: 2-Fluorobiphenyl	17.0 %	28 - 105		B2D1163	04/05/2022	04/05/22 19:46	S10
Surrogate: 2-Fluorophenol	8.91 %	0 - 59		B2D1163	04/05/2022	04/05/22 19:46	
Surrogate: 4-Terphenyl-d14	17.7 %	32 - 116		B2D1163	04/05/2022	04/05/22 19:46	S10
Surrogate: Nitrobenzene-d5	18.3 %	25 - 101		B2D1163	04/05/2022	04/05/22 19:46	S10
Surrogate: Phenol-d6	8.69 %	0 - 48		B2D1163	04/05/2022	04/05/22 19:46	

Client Sample ID: O-2
Lab ID: 2200224-06

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1221	ND	2.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1232	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1242	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1248	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1254	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1260	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Surrogate: Decachlorobiphenyl	71.6 %	0 - 87		B2B1190	02/24/2022	02/24/22 22:33	
Surrogate: Tetrachloro-m-xylene	67.2 %	0 - 103		B2B1190	02/24/2022	02/24/22 22:33	



Certificate of Analysis

Vista Environmental
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Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: W-2

Lab ID: 2200224-07

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1221	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1232	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1242	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1248	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1254	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1260	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
<i>Surrogate: Decachlorobiphenyl</i>	<i>31.3 %</i>	<i>0 - 87</i>		B2B1196	02/24/2022	<i>03/02/22 21:00</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>28.6 %</i>	<i>0 - 103</i>		B2B1196	02/24/2022	<i>03/02/22 21:00</i>	



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-4

Lab ID: 2200224-08

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:30	
Chromium	9.7	1.0	1	B2B1183	02/24/2022	02/25/22 15:30	
Copper	11	2.0	1	B2B1183	02/24/2022	02/25/22 15:30	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Anthracene	130000	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-4

Lab ID: 2200224-08

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	160000	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzo(b)fluoranthene	130000	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Chrysene	270000	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Fluoranthene	1900000	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Pentachlorophenol	1700000	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Phenanthrene	1700000	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Pyrene	1200000	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>23 - 102</i>		B2B1160	02/23/2022	02/28/22 22:26	S4
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>	<i>3 - 138</i>		B2B1160	02/23/2022	02/28/22 22:26	S4
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>	<i>18 - 105</i>		B2B1160	02/23/2022	02/28/22 22:26	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-4

Lab ID: 2200224-08

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: 2-Fluorobiphenyl</i>	58.0 %	34 - 106		B2B1160	02/23/2022	02/28/22 22:26	
<i>Surrogate: 2-Fluorophenol</i>	0%	16 - 94		B2B1160	02/23/2022	02/28/22 22:26	S4
<i>Surrogate: 4-Terphenyl-d14</i>	93.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 22:26	
<i>Surrogate: Nitrobenzene-d5</i>	0%	23 - 102		B2B1160	02/23/2022	02/28/22 22:26	S4
<i>Surrogate: Phenol-d6</i>	0%	14 - 104		B2B1160	02/23/2022	02/28/22 22:26	S4



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

Client Sample ID: TW-5
Lab ID: 2200224-09

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:32	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:32	
Copper	3.1	2.0	1	B2B1183	02/24/2022	02/25/22 15:32	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

Client Sample ID: TW-5
Lab ID: 2200224-09

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Pentachlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	0%	23 - 102		B2B1160	02/23/2022	02/28/22 22:52	S4
<i>Surrogate: 2,4,6-Tribromophenol</i>	0%	3 - 138		B2B1160	02/23/2022	02/28/22 22:52	S4
<i>Surrogate: 2-Chlorophenol-d4</i>	0%	18 - 105		B2B1160	02/23/2022	02/28/22 22:52	S4
<i>Surrogate: 2-Fluorobiphenyl</i>	29.0 %	34 - 106		B2B1160	02/23/2022	02/28/22 22:52	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-5

Lab ID: 2200224-09

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: 2-Fluorophenol</i>	0%	16 - 94		B2B1160	02/23/2022	02/28/22 22:52	S4
<i>Surrogate: 4-Terphenyl-d14</i>	60.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 22:52	
<i>Surrogate: Nitrobenzene-d5</i>	0%	23 - 102		B2B1160	02/23/2022	02/28/22 22:52	S4
<i>Surrogate: Phenol-d6</i>	0%	14 - 104		B2B1160	02/23/2022	02/28/22 22:52	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-6

Lab ID: 2200224-10

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:34	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:34	
Copper	14	2.0	1	B2B1183	02/24/2022	02/25/22 15:34	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-6

Lab ID: 2200224-10

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Pentachlorophenol	1100000	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Surrogate: 1,2-Dichlorobenzene-d4	0%	23 - 102		B2B1160	02/23/2022	02/28/22 23:18	S4
Surrogate: 2,4,6-Tribromophenol	0%	3 - 138		B2B1160	02/23/2022	02/28/22 23:18	S4
Surrogate: 2-Chlorophenol-d4	0%	18 - 105		B2B1160	02/23/2022	02/28/22 23:18	S4
Surrogate: 2-Fluorobiphenyl	9.00 %	34 - 106		B2B1160	02/23/2022	02/28/22 23:18	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-6

Lab ID: 2200224-10

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorophenol	0%	16 - 94		B2B1160	02/23/2022	02/28/22 23:18	S4
Surrogate: 4-Terphenyl-d14	88.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 23:18	
Surrogate: Nitrobenzene-d5	0%	23 - 102		B2B1160	02/23/2022	02/28/22 23:18	S4
Surrogate: Phenol-d6	0%	14 - 104		B2B1160	02/23/2022	02/28/22 23:18	S4

Client Sample ID: O-3

Lab ID: 2200224-11

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1221	ND	2.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1232	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1242	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1248	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1254	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1260	1.5	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Surrogate: Decachlorobiphenyl	77.7 %	0 - 87		B2B1190	02/24/2022	02/24/22 22:52	
Surrogate: Tetrachloro-m-xylene	65.9 %	0 - 103		B2B1190	02/24/2022	02/24/22 22:52	



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: W-3
Lab ID: 2200224-12

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1221	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1232	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1242	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1248	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1254	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1260	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
<i>Surrogate: Decachlorobiphenyl</i>	35.7 %	0 - 87		B2B1196	02/24/2022	03/02/22 21:19	
<i>Surrogate: Tetrachloro-m-xylene</i>	32.6 %	0 - 103		B2B1196	02/24/2022	03/02/22 21:19	



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Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

Client Sample ID: TW-7

Lab ID: 2200224-13

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:36	
Chromium	24	1.0	1	B2B1183	02/24/2022	02/25/22 15:36	
Copper	140	2.0	1	B2B1183	02/24/2022	02/25/22 15:36	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-7

Lab ID: 2200224-13

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Fluoranthene	320000	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Pentachlorophenol	510000	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Phenanthrene	160000	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Pyrene	150000	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>23 - 102</i>		B2B1160	02/23/2022	02/28/22 23:45	S4
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>	<i>3 - 138</i>		B2B1160	02/23/2022	02/28/22 23:45	S4
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>	<i>18 - 105</i>		B2B1160	02/23/2022	02/28/22 23:45	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-7

Lab ID: 2200224-13

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: 2-Fluorobiphenyl</i>	38.0 %	34 - 106		B2B1160	02/23/2022	02/28/22 23:45	
<i>Surrogate: 2-Fluorophenol</i>	0%	16 - 94		B2B1160	02/23/2022	02/28/22 23:45	S4
<i>Surrogate: 4-Terphenyl-d14</i>	79.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 23:45	
<i>Surrogate: Nitrobenzene-d5</i>	0%	23 - 102		B2B1160	02/23/2022	02/28/22 23:45	S4
<i>Surrogate: Phenol-d6</i>	0%	14 - 104		B2B1160	02/23/2022	02/28/22 23:45	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-8

Lab ID: 2200224-14

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:38	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:38	
Copper	4.8	2.0	1	B2B1183	02/24/2022	02/25/22 15:38	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-8

Lab ID: 2200224-14

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Pentachlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10

Surrogate: 1,2-Dichlorobenzene-d4	33.0 %	23 - 102		B2B1160	02/23/2022	03/01/22 00:11	
Surrogate: 2,4,6-Tribromophenol	0%	3 - 138		B2B1160	02/23/2022	03/01/22 00:11	S4
Surrogate: 2-Chlorophenol-d4	0%	18 - 105		B2B1160	02/23/2022	03/01/22 00:11	S4
Surrogate: 2-Fluorobiphenyl	12.0 %	34 - 106		B2B1160	02/23/2022	03/01/22 00:11	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-8

Lab ID: 2200224-14

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: 2-Fluorophenol</i>	0%	16 - 94		B2B1160	02/23/2022	03/01/22 00:11	S4
<i>Surrogate: 4-Terphenyl-d14</i>	74.0 %	31 - 130		B2B1160	02/23/2022	03/01/22 00:11	
<i>Surrogate: Nitrobenzene-d5</i>	0%	23 - 102		B2B1160	02/23/2022	03/01/22 00:11	S4
<i>Surrogate: Phenol-d6</i>	0%	14 - 104		B2B1160	02/23/2022	03/01/22 00:11	S4



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

Client Sample ID: TW-9
Lab ID: 2200224-15

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:40	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:40	
Copper	20	2.0	1	B2B1183	02/24/2022	02/25/22 15:40	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

Client Sample ID: TW-9
Lab ID: 2200224-15

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Pentachlorophenol	5200000	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Surrogate: 1,2-Dichlorobenzene-d4	0%	23 - 102		B2B1160	02/23/2022	03/01/22 00:37	S4
Surrogate: 2,4,6-Tribromophenol	0%	3 - 138		B2B1160	02/23/2022	03/01/22 00:37	S4
Surrogate: 2-Chlorophenol-d4	0%	18 - 105		B2B1160	02/23/2022	03/01/22 00:37	S4
Surrogate: 2-Fluorobiphenyl	20.0 %	34 - 106		B2B1160	02/23/2022	03/01/22 00:37	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-9

Lab ID: 2200224-15

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorophenol	0%	16 - 94		B2B1160	02/23/2022	03/01/22 00:37	S4
Surrogate: 4-Terphenyl-d14	54.0 %	31 - 130		B2B1160	02/23/2022	03/01/22 00:37	
Surrogate: Nitrobenzene-d5	0%	23 - 102		B2B1160	02/23/2022	03/01/22 00:37	S4
Surrogate: Phenol-d6	0%	14 - 104		B2B1160	02/23/2022	03/01/22 00:37	S4

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
1,2-Dichlorobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
1,3-Dichlorobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
1,4-Dichlorobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4,5-Trichlorophenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4,6-Trichlorophenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4-Dichlorophenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4-Dimethylphenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4-Dinitrophenol	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4-Dinitrotoluene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,6-Dinitrotoluene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Chloronaphthalene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Chlorophenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Methylnaphthalene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Methylphenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Nitroaniline	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Nitrophenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
3,3'-Dichlorobenzidine	ND	0.05	1	B2D1163	04/05/2022	04/05/22 20:13	H1
3-Nitroaniline	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4,6-Dinitro-2-methylphenol	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Bromophenyl-phenylether	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Chloro-3-methylphenol	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Chloroaniline	ND	0.05	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Chlorophenyl-phenylether	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
3/4-Methylphenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Methylphenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Nitroaniline	ND	0.05	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Nitrophenol	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Acenaphthene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Acenaphthylene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-9
Lab ID: 2200224-15

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Anthracene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzo(a)anthracene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzo(a)pyrene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzo(b)fluoranthene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzo(g,h,i)perylene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzo(k)fluoranthene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzoic acid	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzyl alcohol	ND	0.05	1	B2D1163	04/05/2022	04/05/22 20:13	H1
bis(2-chloroethoxy)methane	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
bis(2-Chloroethyl)ether	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
bis(2-chloroisopropyl)ether	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
bis(2-ethylhexyl)phthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Butylbenzylphthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Chrysene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Di-n-butylphthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Di-n-octylphthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Dibenz(a,h)anthracene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Dibenzofuran	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Diethyl phthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Dimethyl phthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Fluoranthene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Fluorene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Hexachlorobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Hexachlorobutadiene	ND	0.05	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Hexachlorocyclopentadiene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Hexachloroethane	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Indeno(1,2,3-cd)pyrene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Isophorone	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
N-Nitroso-di-n propylamine	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
N-Nitrosodiphenylamine	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Naphthalene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Nitrobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Pentachlorophenol	1.7	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Phenanthrene	0.03	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Phenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Pyrene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Pyridine	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>50.8 %</i>	<i>21 - 92</i>		B2D1163	04/05/2022	<i>04/05/22 20:13</i>	
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>55.5 %</i>	<i>24 - 113</i>		B2D1163	04/05/2022	<i>04/05/22 20:13</i>	



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-9

Lab ID: 2200224-15

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Chlorophenol-d4	41.0 %	14 - 86		B2D1163	04/05/2022	04/05/22 20:13	
Surrogate: 2-Fluorobiphenyl	53.7 %	28 - 105		B2D1163	04/05/2022	04/05/22 20:13	
Surrogate: 2-Fluorophenol	27.2 %	0 - 59		B2D1163	04/05/2022	04/05/22 20:13	
Surrogate: 4-Terphenyl-d14	55.8 %	32 - 116		B2D1163	04/05/2022	04/05/22 20:13	
Surrogate: Nitrobenzene-d5	59.8 %	25 - 101		B2D1163	04/05/2022	04/05/22 20:13	
Surrogate: Phenol-d6	26.5 %	0 - 48		B2D1163	04/05/2022	04/05/22 20:13	



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-10

Lab ID: 2200224-16

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	11	1.0	1	B2B1183	02/24/2022	02/25/22 15:42	
Chromium	16	1.0	1	B2B1183	02/24/2022	02/25/22 15:42	
Copper	4.3	2.0	1	B2B1183	02/24/2022	02/25/22 15:42	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-10
Lab ID: 2200224-16

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Fluoranthene	550000	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Pentachlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Phenanthrene	500000	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Pyrene	360000	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>23 - 102</i>		B2B1160	02/23/2022	03/01/22 01:03	S4
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>	<i>3 - 138</i>		B2B1160	02/23/2022	03/01/22 01:03	S4
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>	<i>18 - 105</i>		B2B1160	02/23/2022	03/01/22 01:03	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-10
Lab ID: 2200224-16

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: 2-Fluorobiphenyl</i>	0%	34 - 106		B2B1160	02/23/2022	03/01/22 01:03	S4
<i>Surrogate: 2-Fluorophenol</i>	0%	16 - 94		B2B1160	02/23/2022	03/01/22 01:03	S4
<i>Surrogate: 4-Terphenyl-d14</i>	12.0 %	31 - 130		B2B1160	02/23/2022	03/01/22 01:03	S4
<i>Surrogate: Nitrobenzene-d5</i>	0%	23 - 102		B2B1160	02/23/2022	03/01/22 01:03	S4
<i>Surrogate: Phenol-d6</i>	0%	14 - 104		B2B1160	02/23/2022	03/01/22 01:03	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-11

Lab ID: 2200224-17

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:44	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:44	
Copper	52	2.0	1	B2B1183	02/24/2022	02/25/22 15:44	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
3,3'-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-11

Lab ID: 2200224-17

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Pentachlorophenol	760000	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>23 - 102</i>		B2B1160	02/23/2022	<i>03/01/22 01:29</i>	S4
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>	<i>3 - 138</i>		B2B1160	02/23/2022	<i>03/01/22 01:29</i>	S4
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>	<i>18 - 105</i>		B2B1160	02/23/2022	<i>03/01/22 01:29</i>	S4
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>25.0 %</i>	<i>34 - 106</i>		B2B1160	02/23/2022	<i>03/01/22 01:29</i>	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-11
Lab ID: 2200224-17

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: 2-Fluorophenol</i>	0%	16 - 94		B2B1160	02/23/2022	03/01/22 01:29	S4
<i>Surrogate: 4-Terphenyl-d14</i>	63.0 %	31 - 130		B2B1160	02/23/2022	03/01/22 01:29	
<i>Surrogate: Nitrobenzene-d5</i>	0%	23 - 102		B2B1160	02/23/2022	03/01/22 01:29	S4
<i>Surrogate: Phenol-d6</i>	0%	14 - 104		B2B1160	02/23/2022	03/01/22 01:29	S4



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-12

Lab ID: 2200224-18

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:50	
Chromium	1.4	1.0	1	B2B1183	02/24/2022	02/25/22 15:50	
Copper	5.6	2.0	1	B2B1183	02/24/2022	02/25/22 15:50	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
1,2-Dichlorobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
1,3-Dichlorobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
1,4-Dichlorobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4,5-Trichlorophenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4,6-Trichlorophenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4-Dichlorophenol	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4-Dimethylphenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4-Dinitrophenol	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4-Dinitrotoluene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,6-Dinitrotoluene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Chloronaphthalene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Chlorophenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Methylnaphthalene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Methylphenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Nitroaniline	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Nitrophenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
3,3'-Dichlorobenzidine	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
3-Nitroaniline	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4,6-Dinitro-2-methylphenol	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Bromophenyl-phenylether	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Chloro-3-methylphenol	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Chloroaniline	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Chlorophenyl-phenylether	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Methylphenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Nitroaniline	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Nitrophenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Acenaphthene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Acenaphthylene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Anthracene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzidine (M)	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

Client Sample ID: TW-12
Lab ID: 2200224-18

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzo(a)pyrene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzo(b)fluoranthene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzo(g,h,i)perylene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzo(k)fluoranthene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzoic acid	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzyl alcohol	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
bis(2-chloroethoxy)methane	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
bis(2-Chloroethyl)ether	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
bis(2-chloroisopropyl)ether	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
bis(2-ethylhexyl)phthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Butylbenzylphthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Chrysene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Di-n-butylphthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Di-n-octylphthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Dibenz(a,h)anthracene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Dibenzofuran	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Diethyl phthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Dimethyl phthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Fluoranthene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Fluorene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Hexachlorobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Hexachlorobutadiene	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Hexachlorocyclopentadiene	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Hexachloroethane	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Indeno(1,2,3-cd)pyrene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Isophorone	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
N-Nitroso-di-n propylamine	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
N-Nitrosodiphenylamine	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Naphthalene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Nitrobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Pentachlorophenol	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Phenanthrene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Phenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Pyrene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Pyridine	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10

Surrogate: 1,2-Dichlorobenzene-d4	53.6 %	23 - 102	B2B1160	02/23/2022	03/01/22 01:55
Surrogate: 2,4,6-Tribromophenol	89.5 %	3 - 138	B2B1160	02/23/2022	03/01/22 01:55
Surrogate: 2-Chlorophenol-d4	52.2 %	18 - 105	B2B1160	02/23/2022	03/01/22 01:55
Surrogate: 2-Fluorobiphenyl	57.2 %	34 - 106	B2B1160	02/23/2022	03/01/22 01:55



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-12
Lab ID: 2200224-18

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: 2-Fluorophenol</i>	46.9 %	16 - 94		B2B1160	02/23/2022	03/01/22 01:55	
<i>Surrogate: 4-Terphenyl-d14</i>	88.4 %	31 - 130		B2B1160	02/23/2022	03/01/22 01:55	
<i>Surrogate: Nitrobenzene-d5</i>	52.6 %	23 - 102		B2B1160	02/23/2022	03/01/22 01:55	
<i>Surrogate: Phenol-d6</i>	46.7 %	14 - 104		B2B1160	02/23/2022	03/01/22 01:55	



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B1183 - EPA 3050B_S										
Blank (B2B1183-BLK1)										
						Prepared: 2/24/2022 Analyzed: 2/25/2022				
Arsenic	ND	1.0	0.12							
Chromium	ND	1.0	0.26							
Copper	ND	2.0	0.19							
LCS (B2B1183-BS1)										
						Prepared: 2/24/2022 Analyzed: 2/25/2022				
Arsenic	24.0739	1.0	0.12	25.0000		96.3	80 - 120			
Chromium	24.6271	1.0	0.26	25.0000		98.5	80 - 120			
Copper	24.7303	2.0	0.19	25.0000		98.9	80 - 120			
Matrix Spike (B2B1183-MS1)										
						Prepared: 2/24/2022 Analyzed: 2/25/2022				
						Source: 2200224-03				
Arsenic	22.0730	1.0	0.12	25.0000	0.265816	87.2	55 - 117			
Chromium	38.8938	1.0	0.26	25.0000	15.7886	92.4	42 - 145			
Copper	45.8639	2.0	0.19	25.0000	21.7010	96.7	37 - 163			
Matrix Spike Dup (B2B1183-MSD1)										
						Prepared: 2/24/2022 Analyzed: 2/25/2022				
						Source: 2200224-03				
Arsenic	21.9565	1.0	0.12	25.0000	0.265816	86.8	55 - 117	0.529	20	
Chromium	38.8872	1.0	0.26	25.0000	15.7886	92.4	42 - 145	0.0169	20	
Copper	45.9494	2.0	0.19	25.0000	21.7010	97.0	37 - 163	0.186	20	



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

Polychlorinated Biphenyls by EPA 8082 - 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 B2B1190 - GCSEMI_PCB/PEST_NAL

Blank (B2B1190-BLK1)

Prepared: 2/24/2022 Analyzed: 2/24/2022

Aroclor 1016	ND	1.0	0.12							
Aroclor 1221	ND	2.0	0.12							
Aroclor 1232	ND	1.0	0.12							
Aroclor 1242	ND	1.0	0.12							
Aroclor 1248	ND	1.0	0.12							
Aroclor 1254	ND	1.0	0.12							
Aroclor 1260	ND	1.0	0.12							

<i>Surrogate: Decachlorobiphenyl</i>	0.9830			1.00000		98.3	0 - 87			S12
<i>Surrogate: Tetrachloro-m-xylene</i>	0.9984			1.00000		99.8	0 - 103			

LCS (B2B1190-BS1)

Prepared: 2/24/2022 Analyzed: 2/24/2022

Aroclor 1016	8.73918	1.0	0.12	10.0000		87.4	11 - 108			
Aroclor 1260	10.1606	1.0	0.12	10.0000		102	19 - 112			

<i>Surrogate: Decachlorobiphenyl</i>	0.9804			1.00000		98.0	0 - 87			S12
<i>Surrogate: Tetrachloro-m-xylene</i>	0.9672			1.00000		96.7	0 - 103			

Matrix Spike (B2B1190-MS1)

Source: 2200224-01

Prepared: 2/24/2022 Analyzed: 2/24/2022

Aroclor 1016	2.91776	1.0	0.12	10.0000	ND	29.2	0 - 135			
Aroclor 1260	9.23187	1.0	0.12	10.0000	ND	92.3	0 - 127			

<i>Surrogate: Decachlorobiphenyl</i>	0.7835			1.00000		78.4	0 - 87			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.02673			1.00000		2.67	0 - 103			

Matrix Spike Dup (B2B1190-MSD1)

Source: 2200224-01

Prepared: 2/24/2022 Analyzed: 2/24/2022

Aroclor 1016	2.92991	1.0	0.12	10.0000	ND	29.3	0 - 135	0.416	20	
Aroclor 1260	9.20703	1.0	0.12	10.0000	ND	92.1	0 - 127	0.269	20	

<i>Surrogate: Decachlorobiphenyl</i>	0.7878			1.00000		78.8	0 - 87			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.03591			1.00000		3.59	0 - 103			



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

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
Batch B2B1196 - GCSEMI_PCB/PEST_S										
Blank (B2B1196-BLK1)										
					Prepared: 2/24/2022 Analyzed: 3/2/2022					
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							
<hr/>										
<i>Surrogate: Decachlorobiphenyl</i>	9.532			16.6667		57.2	0 - 87			
<i>Surrogate: Tetrachloro-m-xylene</i>	9.072			16.6667		54.4	0 - 103			
<hr/>										
LCS (B2B1196-BS1)										
					Prepared: 2/24/2022 Analyzed: 3/2/2022					
Aroclor 1016	89.5262	16	1.9	166.667		53.7	11 - 108			
Aroclor 1260	98.6898	16	1.9	166.667		59.2	19 - 112			
<hr/>										
<i>Surrogate: Decachlorobiphenyl</i>	9.613			16.6667		57.7	0 - 87			
<i>Surrogate: Tetrachloro-m-xylene</i>	9.419			16.6667		56.5	0 - 103			
<hr/>										
Matrix Spike (B2B1196-MS1)										
					Source: 2200224-02		Prepared: 2/24/2022 Analyzed: 3/2/2022			
Aroclor 1016	1192.28	240	29	2500.00	ND	47.7	0 - 135			
Aroclor 1260	860.268	240	29	2500.00	ND	34.4	0 - 127			
<hr/>										
<i>Surrogate: Decachlorobiphenyl</i>	90.15			250.000		36.1	0 - 87			
<i>Surrogate: Tetrachloro-m-xylene</i>	76.27			250.000		30.5	0 - 103			
<hr/>										
Matrix Spike Dup (B2B1196-MSD1)										
					Source: 2200224-02		Prepared: 2/24/2022 Analyzed: 3/2/2022			
Aroclor 1016	1045.38	240	29	2500.00	ND	41.8	0 - 135	13.1	20	
Aroclor 1260	742.158	240	29	2500.00	ND	29.7	0 - 127	14.7	20	
<hr/>										
<i>Surrogate: Decachlorobiphenyl</i>	79.58			250.000		31.8	0 - 87			
<i>Surrogate: Tetrachloro-m-xylene</i>	66.19			250.000		26.5	0 - 103			



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Semivolatile Organic Compounds by EPA 8270C - Quality Control

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 B2B1160 - MSSEMI_NAL

Blank (B2B1160-BLK1)

Prepared: 2/23/2022 Analyzed: 2/28/2022

1,2,4-Trichlorobenzene	ND	160	25							
1,2-Dichlorobenzene	ND	160	13							
1,3-Dichlorobenzene	ND	160	14							
1,4-Dichlorobenzene	ND	160	13							
2,4,5-Trichlorophenol	ND	160	15							
2,4,6-Trichlorophenol	ND	160	17							
2,4-Dichlorophenol	ND	820	17							
2,4-Dimethylphenol	ND	160	13							
2,4-Dinitrophenol	ND	820	43							
2,4-Dinitrotoluene	ND	160	17							
2,6-Dinitrotoluene	ND	160	24							
2-Chloronaphthalene	ND	160	14							
2-Chlorophenol	ND	160	15							
2-Methylnaphthalene	ND	160	14							
2-Methylphenol	ND	160	18							
2-Nitroaniline	ND	820	21							
2-Nitrophenol	ND	160	22							
3,3'-Dichlorobenzidine	ND	330	140							
3-Nitroaniline	ND	820	24							
4,6-Dinitro-2-methylphenol	ND	820	21							
4-Bromophenyl-phenylether	ND	160	32							
4-Chloro-3-methylphenol	ND	330	36							
4-Chloroaniline	ND	330	26							
4-Chlorophenyl-phenylether	ND	160	17							
4-Methylphenol	ND	160	28							
4-Nitroaniline	ND	820	19							
4-Nitrophenol	ND	160	32							
Acenaphthene	ND	160	21							
Acenaphthylene	ND	160	31							
Anthracene	ND	160	26							
Benzdine (M)	ND	820	710							
Benzo(a)anthracene	ND	160	22							
Benzo(a)pyrene	ND	160	32							
Benzo(b)fluoranthene	ND	160	32							
Benzo(g,h,i)perylene	ND	160	40							
Benzo(k)fluoranthene	ND	160	16							
Benzoic acid	ND	820	450							
Benzyl alcohol	ND	330	16							
bis(2-chloroethoxy)methane	ND	160	32							
bis(2-Chloroethyl)ether	ND	160	33							
bis(2-chloroisopropyl)ether	ND	160	38							
bis(2-ethylhexyl)phthalate	ND	160	31							
Butylbenzylphthalate	ND	160	21							
Chrysene	ND	160	42							
Di-n-butylphthalate	ND	160	25							



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Semivolatile Organic Compounds by EPA 8270C - 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 B2B1160 - MSSEMI_NAL (continued)

Blank (B2B1160-BLK1) - Continued

Prepared: 2/23/2022 Analyzed: 2/28/2022

Di-n-octylphthalate	ND	160	31
Dibenz(a,h)anthracene	ND	160	22
Dibenzofuran	ND	160	29
Diethyl phthalate	ND	160	29
Dimethyl phthalate	ND	160	20
Fluoranthene	ND	160	30
Fluorene	ND	160	53
Hexachlorobenzene	ND	160	27
Hexachlorobutadiene	ND	330	26
Hexachlorocyclopentadiene	ND	330	35
Hexachloroethane	ND	160	47
Indeno(1,2,3-cd)pyrene	ND	160	38
Isophorone	ND	160	42
N-Nitroso-di-n propylamine	ND	160	30
N-Nitrosodiphenylamine	ND	160	16
Naphthalene	ND	160	28
Nitrobenzene	ND	160	28
Pentachlorophenol	ND	820	25
Phenanthrene	ND	160	33
Phenol	ND	160	17
Pyrene	ND	160	36
Pyridine	ND	820	130

<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2151		3333.33	64.5	23 - 102
<i>Surrogate: 2,4,6-Tribromophenol</i>	3957		5000.00	79.1	3 - 138
<i>Surrogate: 2-Chlorophenol-d4</i>	3248		5000.00	65.0	18 - 105
<i>Surrogate: 2-Fluorobiphenyl</i>	2365		3333.33	71.0	34 - 106
<i>Surrogate: 2-Fluorophenol</i>	2890		5000.00	57.8	16 - 94
<i>Surrogate: 4-Terphenyl-d14</i>	3367		3333.33	101	31 - 130
<i>Surrogate: Nitrobenzene-d5</i>	1703		3333.33	51.1	23 - 102
<i>Surrogate: Phenol-d6</i>	3102		5000.00	62.0	14 - 104

Blank (B2B1160-BLK2)

Prepared: 2/23/2022 Analyzed: 2/28/2022

1,2,4-Trichlorobenzene	ND	160	25
1,2-Dichlorobenzene	ND	160	13
1,3-Dichlorobenzene	ND	160	14
1,4-Dichlorobenzene	ND	160	13
2,4,5-Trichlorophenol	ND	160	15
2,4,6-Trichlorophenol	ND	160	17
2,4-Dichlorophenol	ND	820	17
2,4-Dimethylphenol	ND	160	13
2,4-Dinitrophenol	ND	820	43
2,4-Dinitrotoluene	ND	160	17
2,6-Dinitrotoluene	ND	160	24
2-Chloronaphthalene	ND	160	14
2-Chlorophenol	ND	160	15



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Semivolatile Organic Compounds by EPA 8270C - 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 B2B1160 - MSSEMI_NAL (continued)

Blank (B2B1160-BLK2) - Continued

Prepared: 2/23/2022 Analyzed: 2/28/2022

2-Methylnaphthalene	ND	160	14							
2-Methylphenol	ND	160	18							
2-Nitroaniline	ND	820	21							
2-Nitrophenol	ND	160	22							
3,3'-Dichlorobenzidine	ND	330	140							
3-Nitroaniline	ND	820	24							
4,6-Dinitro-2-methylphenol	ND	820	21							
4-Bromophenyl-phenylether	ND	160	32							
4-Chloro-3-methylphenol	ND	330	36							
4-Chloroaniline	ND	330	26							
4-Chlorophenyl-phenylether	ND	160	17							
4-Methylphenol	ND	160	28							
4-Nitroaniline	ND	820	19							
4-Nitrophenol	ND	160	32							
Acenaphthene	ND	160	21							
Acenaphthylene	ND	160	31							
Anthracene	ND	160	26							
Benzdine (M)	ND	820	710							
Benzo(a)anthracene	ND	160	22							
Benzo(a)pyrene	ND	160	32							
Benzo(b)fluoranthene	ND	160	32							
Benzo(g,h,i)perylene	ND	160	40							
Benzo(k)fluoranthene	ND	160	16							
Benzoic acid	ND	820	450							
Benzyl alcohol	ND	330	16							
bis(2-chloroethoxy)methane	ND	160	32							
bis(2-Chloroethyl)ether	ND	160	33							
bis(2-chloroisopropyl)ether	ND	160	38							
bis(2-ethylhexyl)phthalate	ND	160	31							
Butylbenzylphthalate	ND	160	21							
Chrysene	ND	160	42							
Di-n-butylphthalate	ND	160	25							
Di-n-octylphthalate	ND	160	31							
Dibenz(a,h)anthracene	ND	160	22							
Dibenzofuran	ND	160	29							
Diethyl phthalate	ND	160	29							
Dimethyl phthalate	ND	160	20							
Fluoranthene	ND	160	30							
Fluorene	ND	160	53							
Hexachlorobenzene	ND	160	27							
Hexachlorobutadiene	ND	330	26							
Hexachlorocyclopentadiene	ND	330	35							
Hexachloroethane	ND	160	47							
Indeno(1,2,3-cd)pyrene	ND	160	38							
Isophorone	ND	160	42							



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Semivolatile Organic Compounds by EPA 8270C - 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 B2B1160 - MSSEMI_NAL (continued)

Blank (B2B1160-BLK2) - Continued

Prepared: 2/23/2022 Analyzed: 2/28/2022

N-Nitroso-di-n propylamine	ND	160	30						
N-Nitrosodiphenylamine	ND	160	16						
Naphthalene	ND	160	28						
Nitrobenzene	ND	160	28						
Pentachlorophenol	ND	820	25						
Phenanthrene	ND	160	33						
Phenol	ND	160	17						
Pyrene	ND	160	36						
Pyridine	ND	820	130						

<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	1993			3333.33		59.8	23 - 102		
<i>Surrogate: 2,4,6-Tribromophenol</i>	3955			5000.00		79.1	3 - 138		
<i>Surrogate: 2-Chlorophenol-d4</i>	2798			5000.00		56.0	18 - 105		
<i>Surrogate: 2-Fluorobiphenyl</i>	2118			3333.33		63.5	34 - 106		
<i>Surrogate: 2-Fluorophenol</i>	2838			5000.00		56.8	16 - 94		
<i>Surrogate: 4-Terphenyl-d14</i>	3178			3333.33		95.4	31 - 130		
<i>Surrogate: Nitrobenzene-d5</i>	1849			3333.33		55.5	23 - 102		
<i>Surrogate: Phenol-d6</i>	2942			5000.00		58.8	14 - 104		

LCS (B2B1160-BS1)

Prepared: 2/23/2022 Analyzed: 2/28/2022

1,2,4-Trichlorobenzene	2422.00	160	25	3333.33		72.7	41 - 104		
1,2-Dichlorobenzene	2167.00	160	13	3333.33		65.0	37 - 100		
1,3-Dichlorobenzene	2036.00	160	14	3333.33		61.1	36 - 98		
1,4-Dichlorobenzene	2133.67	160	13	3333.33		64.0	37 - 97		
2,4,5-Trichlorophenol	2791.67	160	15	3333.33		83.8	47 - 115		
2,4,6-Trichlorophenol	2774.00	160	17	3333.33		83.2	48 - 119		
2,4-Dichlorophenol	2535.67	820	17	3333.33		76.1	46 - 118		
2,4-Dimethylphenol	2563.33	160	13	3333.33		76.9	41 - 114		
2,4-Dinitrophenol	1980.67	820	43	3333.33		59.4	0 - 180		
2,4-Dinitrotoluene	2845.33	160	17	3333.33		85.4	40 - 138		
2,6-Dinitrotoluene	2972.33	160	24	3333.33		89.2	45 - 131		
2-Chloronaphthalene	2533.67	160	14	3333.33		76.0	46 - 112		
2-Chlorophenol	2172.33	160	15	3333.33		65.2	41 - 99		
2-Methylnaphthalene	2522.00	160	14	3333.33		75.7	45 - 111		
2-Methylphenol	2433.33	160	18	3333.33		73.0	40 - 92		
2-Nitroaniline	2581.67	820	21	3333.33		77.5	44 - 130		
2-Nitrophenol	2330.33	160	22	3333.33		69.9	34 - 114		
3,3'-Dichlorobenzidine	2431.00	330	140	3333.33		72.9	41 - 128		
3-Nitroaniline	2866.00	820	24	3333.33		86.0	47 - 123		
4,6-Dinitro-2-methylphenol	2560.67	820	21	3333.33		76.8	2 - 172		
4-Bromophenyl-phenylether	2956.33	160	32	3333.33		88.7	49 - 116		
4-Chloro-3-methylphenol	2882.33	330	36	3333.33		86.5	45 - 127		
4-Chloroaniline	2614.33	330	26	3333.33		78.4	50 - 106		
4-Chlorophenyl-phenylether	2810.33	160	17	3333.33		84.3	49 - 115		
4-Methylphenol	1239.67	160	28	1666.67		74.4	43 - 109		
4-Nitroaniline	3169.00	820	19	3333.33		95.1	44 - 125		



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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 B2B1160 - MSSEMI_NAL (continued)

LCS (B2B1160-BS1) - Continued

Prepared: 2/23/2022 Analyzed: 2/28/2022

4-Nitrophenol	2661.33	160	32	3333.33		79.8	30 - 146			
Acenaphthene	2570.33	160	21	3333.33		77.1	44 - 110			
Acenaphthylene	2754.00	160	31	3333.33		82.6	42 - 111			
Anthracene	3118.67	160	26	3333.33		93.6	41 - 117			
Benzidine (M)	997.667	820	710	3333.33		29.9	0 - 189			
Benzo(a)anthracene	2885.00	160	22	3333.33		86.6	45 - 110			
Benzo(a)pyrene	3363.00	160	32	3333.33		101	45 - 116			
Benzo(b)fluoranthene	3004.67	160	32	3333.33		90.1	43 - 112			
Benzo(g,h,i)perylene	3151.00	160	40	3333.33		94.5	43 - 113			
Benzo(k)fluoranthene	2713.67	160	16	3333.33		81.4	42 - 114			
Benzoic acid	1479.33	820	450	3333.33		44.4	0 - 134			
Benzyl alcohol	2525.33	330	16	3333.33		75.8	39 - 117			
bis(2-chloroethoxy)methane	2307.67	160	32	3333.33		69.2	43 - 102			
bis(2-Chloroethyl)ether	2227.67	160	33	3333.33		66.8	38 - 99			
bis(2-chloroisopropyl)ether	2255.67	160	38	3333.33		67.7	30 - 104			
bis(2-ethylhexyl)phthalate	2770.33	160	31	3333.33		83.1	49 - 123			
Butylbenzylphthalate	2827.33	160	21	3333.33		84.8	49 - 122			
Chrysene	2884.33	160	42	3333.33		86.5	46 - 111			
Di-n-butylphthalate	3133.67	160	25	3333.33		94.0	48 - 118			
Di-n-octylphthalate	2852.33	160	31	3333.33		85.6	46 - 131			
Dibenz(a,h)anthracene	3070.67	160	22	3333.33		92.1	43 - 113			
Dibenzofuran	2684.67	160	29	3333.33		80.5	50 - 113			
Diethyl phthalate	2912.00	160	29	3333.33		87.4	50 - 115			
Dimethyl phthalate	2892.00	160	20	3333.33		86.8	48 - 112			
Fluoranthene	3091.67	160	30	3333.33		92.8	40 - 119			
Fluorene	2774.00	160	53	3333.33		83.2	41 - 117			
Hexachlorobenzene	2946.33	160	27	3333.33		88.4	46 - 123			
Hexachlorobutadiene	2374.33	330	26	3333.33		71.2	37 - 104			
Hexachlorocyclopentadiene	2240.33	330	35	3333.33		67.2	30 - 128			
Hexachloroethane	2016.33	160	47	3333.33		60.5	38 - 103			
Indeno(1,2,3-cd)pyrene	3073.67	160	38	3333.33		92.2	43 - 113			
Isophorone	2619.33	160	42	3333.33		78.6	43 - 109			
N-Nitroso-di-n propylamine	2634.00	160	30	3333.33		79.0	44 - 111			
N-Nitrosodiphenylamine	2879.67	160	16	3333.33		86.4	48 - 113			
Naphthalene	2377.33	160	28	3333.33		71.3	38 - 103			
Nitrobenzene	2172.33	160	28	3333.33		65.2	40 - 111			
Pentachlorophenol	2934.33	820	25	3333.33		88.0	33 - 130			
Phenanthrene	3040.00	160	33	3333.33		91.2	42 - 119			
Phenol	2312.33	160	17	3333.33		69.4	43 - 104			
Pyrene	3192.00	160	36	3333.33		95.8	38 - 120			
Pyridine	ND	820	130	3333.33		NR	0 - 72			

Surrogate: 1,2-Dichlorobenzene-d4	2252			3333.33		67.6	23 - 102			
Surrogate: 2,4,6-Tribromophenol	5107			5000.00		102	3 - 138			
Surrogate: 2-Chlorophenol-d4	3357			5000.00		67.1	18 - 105			
Surrogate: 2-Fluorobiphenyl	2311			3333.33		69.3	34 - 106			



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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 B2B1160 - MSSEMI_NAL (continued)

LCS (B2B1160-BS1) - Continued

Prepared: 2/23/2022 Analyzed: 2/28/2022

Surrogate: 2-Fluorophenol	2955		5000.00		59.1	16 - 94			
Surrogate: 4-Terphenyl-d14	3067		3333.33		92.0	31 - 130			
Surrogate: Nitrobenzene-d5	2304		3333.33		69.1	23 - 102			
Surrogate: Phenol-d6	3336		5000.00		66.7	14 - 104			

LCS (B2B1160-BS2)

Prepared: 2/23/2022 Analyzed: 2/28/2022

1,2,4-Trichlorobenzene	2455.00	160	25	3333.33	73.7	41 - 104			
1,2-Dichlorobenzene	2271.00	160	13	3333.33	68.1	37 - 100			
1,3-Dichlorobenzene	2212.33	160	14	3333.33	66.4	36 - 98			
1,4-Dichlorobenzene	2217.33	160	13	3333.33	66.5	37 - 97			
2,4,5-Trichlorophenol	2932.67	160	15	3333.33	88.0	47 - 115			
2,4,6-Trichlorophenol	2902.67	160	17	3333.33	87.1	48 - 119			
2,4-Dichlorophenol	2607.00	820	17	3333.33	78.2	46 - 118			
2,4-Dimethylphenol	2630.00	160	13	3333.33	78.9	41 - 114			
2,4-Dinitrophenol	2269.67	820	43	3333.33	68.1	0 - 180			
2,4-Dinitrotoluene	2853.33	160	17	3333.33	85.6	40 - 138			
2,6-Dinitrotoluene	2777.67	160	24	3333.33	83.3	45 - 131			
2-Chloronaphthalene	2525.67	160	14	3333.33	75.8	46 - 112			
2-Chlorophenol	2335.67	160	15	3333.33	70.1	41 - 99			
2-Methylnaphthalene	2472.67	160	14	3333.33	74.2	45 - 111			
2-Methylphenol	2510.67	160	18	3333.33	75.3	40 - 92			
2-Nitroaniline	2759.00	820	21	3333.33	82.8	44 - 130			
2-Nitrophenol	2410.33	160	22	3333.33	72.3	34 - 114			
3,3'-Dichlorobenzidine	2644.67	330	140	3333.33	79.3	41 - 128			
3-Nitroaniline	2790.67	820	24	3333.33	83.7	47 - 123			
4,6-Dinitro-2-methylphenol	2432.67	820	21	3333.33	73.0	2 - 172			
4-Bromophenyl-phenylether	2831.67	160	32	3333.33	85.0	49 - 116			
4-Chloro-3-methylphenol	2849.67	330	36	3333.33	85.5	45 - 127			
4-Chloroaniline	2671.00	330	26	3333.33	80.1	50 - 106			
4-Chlorophenyl-phenylether	2759.67	160	17	3333.33	82.8	49 - 115			
4-Methylphenol	1315.33	160	28	1666.67	78.9	43 - 109			
4-Nitroaniline	3087.67	820	19	3333.33	92.6	44 - 125			
4-Nitrophenol	2920.00	160	32	3333.33	87.6	30 - 146			
Acenaphthene	2630.00	160	21	3333.33	78.9	44 - 110			
Acenaphthylene	2756.00	160	31	3333.33	82.7	42 - 111			
Anthracene	3085.00	160	26	3333.33	92.6	41 - 117			
Benzidine (M)	1056.00	820	710	3333.33	31.7	0 - 189			
Benzo(a)anthracene	3124.33	160	22	3333.33	93.7	45 - 110			
Benzo(a)pyrene	3442.00	160	32	3333.33	103	45 - 116			
Benzo(b)fluoranthene	3006.00	160	32	3333.33	90.2	43 - 112			
Benzo(g,h,i)perylene	3200.00	160	40	3333.33	96.0	43 - 113			
Benzo(k)fluoranthene	3015.00	160	16	3333.33	90.5	42 - 114			
Benzoic acid	1409.00	820	450	3333.33	42.3	0 - 134			
Benzyl alcohol	2648.33	330	16	3333.33	79.4	39 - 117			
bis(2-chloroethoxy)methane	2418.67	160	32	3333.33	72.6	43 - 102			



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Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Semivolatile Organic Compounds by EPA 8270C - 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 B2B1160 - MSSEMI_NAL (continued)

LCS (B2B1160-BS2) - Continued

Prepared: 2/23/2022 Analyzed: 2/28/2022

bis(2-Chloroethyl)ether	2247.00	160	33	3333.33		67.4	38 - 99			
bis(2-chloroisopropyl)ether	2324.00	160	38	3333.33		69.7	30 - 104			
bis(2-ethylhexyl)phthalate	2978.00	160	31	3333.33		89.3	49 - 123			
Butylbenzylphthalate	2910.00	160	21	3333.33		87.3	49 - 122			
Chrysene	3111.00	160	42	3333.33		93.3	46 - 111			
Di-n-butylphthalate	3235.33	160	25	3333.33		97.1	48 - 118			
Di-n-octylphthalate	2862.67	160	31	3333.33		85.9	46 - 131			
Dibenz(a,h)anthracene	3145.67	160	22	3333.33		94.4	43 - 113			
Dibenzofuran	2696.33	160	29	3333.33		80.9	50 - 113			
Diethyl phthalate	3067.33	160	29	3333.33		92.0	50 - 115			
Dimethyl phthalate	2869.33	160	20	3333.33		86.1	48 - 112			
Fluoranthene	3039.67	160	30	3333.33		91.2	40 - 119			
Fluorene	2612.00	160	53	3333.33		78.4	41 - 117			
Hexachlorobenzene	3100.00	160	27	3333.33		93.0	46 - 123			
Hexachlorobutadiene	2389.00	330	26	3333.33		71.7	37 - 104			
Hexachlorocyclopentadiene	2261.00	330	35	3333.33		67.8	30 - 128			
Hexachloroethane	2284.33	160	47	3333.33		68.5	38 - 103			
Indeno(1,2,3-cd)pyrene	3142.00	160	38	3333.33		94.3	43 - 113			
Isophorone	2621.67	160	42	3333.33		78.7	43 - 109			
N-Nitroso-di-n propylamine	2745.67	160	30	3333.33		82.4	44 - 111			
N-Nitrosodiphenylamine	2813.33	160	16	3333.33		84.4	48 - 113			
Naphthalene	2359.33	160	28	3333.33		70.8	38 - 103			
Nitrobenzene	2293.33	160	28	3333.33		68.8	40 - 111			
Pentachlorophenol	3070.67	820	25	3333.33		92.1	33 - 130			
Phenanthrene	2968.00	160	33	3333.33		89.0	42 - 119			
Phenol	2380.67	160	17	3333.33		71.4	43 - 104			
Pyrene	3109.67	160	36	3333.33		93.3	38 - 120			
Pyridine	ND	820	130	3333.33		NR	0 - 72			
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Surrogate: 1,2-Dichlorobenzene-d4	2150			3333.33		64.5	23 - 102			
Surrogate: 2,4,6-Tribromophenol	5238			5000.00		105	3 - 138			
Surrogate: 2-Chlorophenol-d4	3359			5000.00		67.2	18 - 105			
Surrogate: 2-Fluorobiphenyl	2447			3333.33		73.4	34 - 106			
Surrogate: 2-Fluorophenol	3027			5000.00		60.5	16 - 94			
Surrogate: 4-Terphenyl-d14	3123			3333.33		93.7	31 - 130			
Surrogate: Nitrobenzene-d5	2322			3333.33		69.7	23 - 102			
Surrogate: Phenol-d6	3561			5000.00		71.2	14 - 104			

Matrix Spike (B2B1160-MS1)

Source: 2200222-03

Prepared: 2/23/2022 Analyzed: 2/28/2022

1,2,4-Trichlorobenzene	ND	99000	15000	20000.0	ND	NR	35 - 113			M6
1,2-Dichlorobenzene	ND	99000	7700	20000.0	ND	NR	32 - 102			M6
1,3-Dichlorobenzene	ND	99000	8200	20000.0	ND	NR	32 - 100			M6
1,4-Dichlorobenzene	ND	99000	8000	20000.0	ND	NR	33 - 97			M6
2,4,5-Trichlorophenol	ND	99000	8900	20000.0	ND	NR	36 - 124			M6
2,4,6-Trichlorophenol	ND	99000	10000	20000.0	ND	NR	37 - 130			M6
2,4-Dichlorophenol	ND	500000	10000	20000.0	ND	NR	32 - 130			M6



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Anaheim, CA 92807

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Reported : 04/11/2022

Semivolatile Organic Compounds by EPA 8270C - 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 B2B1160 - MSSEMI_NAL (continued)

Matrix Spike (B2B1160-MS1) - Continued

Source: 2200222-03

Prepared: 2/23/2022 Analyzed: 2/28/2022

2,4-Dimethylphenol	ND	99000	7700	20000.0	ND	NR	30 - 128			M6
2,4-Dinitrophenol	ND	500000	26000	20000.0	ND	NR	0 - 203			
2,4-Dinitrotoluene	ND	99000	10000	20000.0	ND	NR	21 - 168			M6
2,6-Dinitrotoluene	ND	99000	15000	20000.0	ND	NR	31 - 152			M6
2-Chloronaphthalene	ND	99000	8300	20000.0	ND	NR	33 - 130			M6
2-Chlorophenol	ND	99000	9200	20000.0	ND	NR	32 - 106			M6
2-Methylnaphthalene	ND	99000	8100	20000.0	ND	NR	33 - 125			M6
2-Methylphenol	ND	99000	11000	20000.0	ND	NR	34 - 96			M6
2-Nitroaniline	ND	500000	13000	20000.0	ND	NR	30 - 146			M6
2-Nitrophenol	ND	99000	13000	20000.0	ND	NR	22 - 125			M6
3,3'-Dichlorobenzidine	ND	200000	84000	20000.0	ND	NR	19 - 144			M6
3-Nitroaniline	ND	500000	15000	20000.0	ND	NR	36 - 133			M6
4,6-Dinitro-2-methylphenol	ND	500000	12000	20000.0	ND	NR	0 - 196			
4-Bromophenyl-phenylether	ND	99000	19000	20000.0	ND	NR	41 - 121			M6
4-Chloro-3-methylphenol	ND	200000	21000	20000.0	ND	NR	39 - 134			M6
4-Chloroaniline	ND	200000	16000	20000.0	ND	NR	37 - 115			M6
4-Chlorophenyl-phenylether	ND	99000	10000	20000.0	ND	NR	34 - 133			M6
4-Methylphenol	ND	99000	17000	10000.0	ND	NR	34 - 121			M6
4-Nitroaniline	ND	500000	11000	20000.0	ND	NR	30 - 138			M6
4-Nitrophenol	ND	99000	19000	20000.0	ND	NR	5 - 154			M6
Acenaphthene	ND	99000	13000	20000.0	ND	NR	33 - 121			M6
Acenaphthylene	ND	99000	18000	20000.0	ND	NR	35 - 120			M6
Anthracene	31600.0	99000	15000	20000.0	ND	158	28 - 133			M6
Benzidine (M)	ND	500000	430000	20000.0	ND	NR	8 - 175			M6
Benzo(a)anthracene	30600.0	99000	13000	20000.0	ND	153	32 - 127			M6
Benzo(a)pyrene	ND	99000	19000	20000.0	ND	NR	35 - 127			M6
Benzo(b)fluoranthene	52400.0	99000	19000	20000.0	ND	262	29 - 126			M6
Benzo(g,h,i)perylene	ND	99000	24000	20000.0	ND	NR	26 - 129			M6
Benzo(k)fluoranthene	20800.0	99000	9800	20000.0	ND	104	36 - 120			
Benzoic acid	ND	500000	270000	20000.0	ND	NR	0 - 208			
Benzyl alcohol	ND	200000	9600	20000.0	ND	NR	32 - 120			M6
bis(2-chloroethoxy)methane	ND	99000	19000	20000.0	ND	NR	34 - 108			M6
bis(2-Chloroethyl)ether	ND	99000	20000	20000.0	ND	NR	34 - 100			M6
bis(2-chloroisopropyl)ether	ND	99000	23000	20000.0	ND	NR	21 - 111			M6
bis(2-ethylhexyl)phthalate	197600	99000	19000	20000.0	ND	988	39 - 131			M6
Butylbenzylphthalate	189600	99000	12000	20000.0	ND	948	39 - 129			M6
Chrysene	66800.0	99000	25000	20000.0	ND	334	33 - 126			M6
Di-n-butylphthalate	ND	99000	15000	20000.0	ND	NR	42 - 122			M6
Di-n-octylphthalate	214000	99000	19000	20000.0	ND	1070	30 - 147			M6
Dibenz(a,h)anthracene	ND	99000	13000	20000.0	ND	NR	30 - 126			M6
Dibenzofuran	ND	99000	17000	20000.0	ND	NR	36 - 133			M6
Diethyl phthalate	ND	99000	18000	20000.0	ND	NR	28 - 139			M6
Dimethyl phthalate	ND	99000	12000	20000.0	ND	NR	32 - 129			M6
Fluoranthene	268200	99000	18000	20000.0	ND	1340	23 - 140			M6
Fluorene	ND	99000	32000	20000.0	ND	NR	32 - 130			M6



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Reported : 04/11/2022

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2B1160 - MSSEMI_NAL (continued)

Matrix Spike (B2B1160-MS1) - Continued

Source: 2200222-03

Prepared: 2/23/2022 Analyzed: 2/28/2022

Hexachlorobenzene	ND	99000	16000	20000.0	ND	NR	27 - 148			M6
Hexachlorobutadiene	ND	200000	16000	20000.0	ND	NR	29 - 112			M6
Hexachlorocyclopentadiene	ND	200000	21000	20000.0	ND	NR	13 - 147			M6
Hexachloroethane	ND	99000	28000	20000.0	ND	NR	31 - 104			M6
Indeno(1,2,3-cd)pyrene	ND	99000	23000	20000.0	ND	NR	21 - 137			M6
Isophorone	ND	99000	25000	20000.0	ND	NR	34 - 112			M6
N-Nitroso-di-n propylamine	ND	99000	18000	20000.0	ND	NR	36 - 115			M6
N-Nitrosodiphenylamine	ND	99000	9500	20000.0	ND	NR	40 - 120			M6
Naphthalene	ND	99000	17000	20000.0	ND	NR	33 - 108			M6
Nitrobenzene	ND	99000	17000	20000.0	ND	NR	32 - 122			M6
Pentachlorophenol	231400	500000	15000	20000.0	ND	1160	0 - 151			M6
Phenanthrene	73400.0	99000	20000	20000.0	ND	367	40 - 122			M6
Phenol	ND	99000	10000	20000.0	ND	NR	35 - 112			M6
Pyrene	124000	99000	22000	20000.0	ND	620	28 - 132			M6
Pyridine	ND	500000	80000	20000.0	ND	NR	5 - 107			M6
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Surrogate: 1,2-Dichlorobenzene-d4	6000			20000.0		30.0	23 - 102			
Surrogate: 2,4,6-Tribromophenol	0.000			30000.0		NR	3 - 138			S4
Surrogate: 2-Chlorophenol-d4	0.000			30000.0		NR	18 - 105			S4
Surrogate: 2-Fluorobiphenyl	8800			20000.0		44.0	34 - 106			
Surrogate: 2-Fluorophenol	0.000			30000.0		NR	16 - 94			S4
Surrogate: 4-Terphenyl-d14	13200			20000.0		66.0	31 - 130			
Surrogate: Nitrobenzene-d5	0.000			20000.0		NR	23 - 102			S4
Surrogate: Phenol-d6	0.000			30000.0		NR	14 - 104			S4

Matrix Spike Dup (B2B1160-MSD1)

Source: 2200222-03

Prepared: 2/23/2022 Analyzed: 2/28/2022

1,2,4-Trichlorobenzene	ND	99000	15000	20000.0	ND	NR	35 - 113	NR	20	M6
1,2-Dichlorobenzene	ND	99000	7700	20000.0	ND	NR	32 - 102	NR	20	M6
1,3-Dichlorobenzene	ND	99000	8200	20000.0	ND	NR	32 - 100	NR	20	M6
1,4-Dichlorobenzene	ND	99000	8000	20000.0	ND	NR	33 - 97	NR	20	M6
2,4,5-Trichlorophenol	ND	99000	8900	20000.0	ND	NR	36 - 124	NR	20	M6
2,4,6-Trichlorophenol	ND	99000	10000	20000.0	ND	NR	37 - 130	NR	20	M6
2,4-Dichlorophenol	ND	500000	10000	20000.0	ND	NR	32 - 130	NR	20	M6
2,4-Dimethylphenol	ND	99000	7700	20000.0	ND	NR	30 - 128	NR	20	M6
2,4-Dinitrophenol	ND	500000	26000	20000.0	ND	NR	0 - 203	NR	20	
2,4-Dinitrotoluene	ND	99000	10000	20000.0	ND	NR	21 - 168	NR	20	M6
2,6-Dinitrotoluene	ND	99000	15000	20000.0	ND	NR	31 - 152	NR	20	M6
2-Chloronaphthalene	ND	99000	8300	20000.0	ND	NR	33 - 130	NR	20	M6
2-Chlorophenol	ND	99000	9200	20000.0	ND	NR	32 - 106	NR	20	M6
2-Methylnaphthalene	ND	99000	8100	20000.0	ND	NR	33 - 125	NR	20	M6
2-Methylphenol	ND	99000	11000	20000.0	ND	NR	34 - 96	NR	20	M6
2-Nitroaniline	ND	500000	13000	20000.0	ND	NR	30 - 146	NR	20	M6
2-Nitrophenol	ND	99000	13000	20000.0	ND	NR	22 - 125	NR	20	M6
3,3'-Dichlorobenzidine	ND	200000	84000	20000.0	ND	NR	19 - 144	NR	20	M6
3-Nitroaniline	ND	500000	15000	20000.0	ND	NR	36 - 133	NR	20	M6
4,6-Dinitro-2-methylphenol	ND	500000	12000	20000.0	ND	NR	0 - 196	NR	20	



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Semivolatile Organic Compounds by EPA 8270C - 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 B2B1160 - MSSEMI_NAL (continued)

Matrix Spike Dup (B2B1160-MSD1) - Continued

Source: 2200222-03

Prepared: 2/23/2022 Analyzed: 2/28/2022

4-Bromophenyl-phenylether	ND	99000	19000	20000.0	ND	NR	41 - 121	NR	20	M6
4-Chloro-3-methylphenol	ND	200000	21000	20000.0	ND	NR	39 - 134	NR	20	M6
4-Chloroaniline	ND	200000	16000	20000.0	ND	NR	37 - 115	NR	20	M6
4-Chlorophenyl-phenylether	ND	99000	10000	20000.0	ND	NR	34 - 133	NR	20	M6
4-Methylphenol	ND	99000	17000	10000.0	ND	NR	34 - 121	NR	20	M6
4-Nitroaniline	ND	500000	11000	20000.0	ND	NR	30 - 138	NR	20	M6
4-Nitrophenol	ND	99000	19000	20000.0	ND	NR	5 - 154	NR	20	M6
Acenaphthene	ND	99000	13000	20000.0	ND	NR	33 - 121	NR	20	M6
Acenaphthylene	ND	99000	18000	20000.0	ND	NR	35 - 120	NR	20	M6
Anthracene	30800.0	99000	15000	20000.0	ND	154	28 - 133	2.56	20	M6
Benzdine (M)	ND	500000	430000	20000.0	ND	NR	8 - 175	NR	20	M6
Benzo(a)anthracene	27000.0	99000	13000	20000.0	ND	135	32 - 127	12.5	20	M6
Benzo(a)pyrene	ND	99000	19000	20000.0	ND	NR	35 - 127	NR	20	M6
Benzo(b)fluoranthene	53600.0	99000	19000	20000.0	ND	268	29 - 126	2.26	20	M6
Benzo(g,h,i)perylene	ND	99000	24000	20000.0	ND	NR	26 - 129	NR	20	M6
Benzo(k)fluoranthene	ND	99000	9800	20000.0	ND	NR	36 - 120	NR	20	M6
Benzoic acid	ND	500000	270000	20000.0	ND	NR	0 - 208	NR	20	
Benzyl alcohol	ND	200000	9600	20000.0	ND	NR	32 - 120	NR	20	M6
bis(2-chloroethoxy)methane	ND	99000	19000	20000.0	ND	NR	34 - 108	NR	20	M6
bis(2-Chloroethyl)ether	ND	99000	20000	20000.0	ND	NR	34 - 100	NR	20	M6
bis(2-chloroisopropyl)ether	ND	99000	23000	20000.0	ND	NR	21 - 111	NR	20	M6
bis(2-ethylhexyl)phthalate	198400	99000	19000	20000.0	ND	992	39 - 131	0.404	20	M6
Butylbenzylphthalate	187400	99000	12000	20000.0	ND	937	39 - 129	1.17	20	M6
Chrysene	67800.0	99000	25000	20000.0	ND	339	33 - 126	1.49	20	M6
Di-n-butylphthalate	ND	99000	15000	20000.0	ND	NR	42 - 122	NR	20	M6
Di-n-octylphthalate	213600	99000	19000	20000.0	ND	1070	30 - 147	0.187	20	M6
Dibenz(a,h)anthracene	ND	99000	13000	20000.0	ND	NR	30 - 126	NR	20	M6
Dibenzofuran	ND	99000	17000	20000.0	ND	NR	36 - 133	NR	20	M6
Diethyl phthalate	ND	99000	18000	20000.0	ND	NR	28 - 139	NR	20	M6
Dimethyl phthalate	ND	99000	12000	20000.0	ND	NR	32 - 129	NR	20	M6
Fluoranthene	275000	99000	18000	20000.0	ND	1380	23 - 140	2.50	20	M6
Fluorene	ND	99000	32000	20000.0	ND	NR	32 - 130	NR	20	M6
Hexachlorobenzene	ND	99000	16000	20000.0	ND	NR	27 - 148	NR	20	M6
Hexachlorobutadiene	ND	200000	16000	20000.0	ND	NR	29 - 112	NR	20	M6
Hexachlorocyclopentadiene	ND	200000	21000	20000.0	ND	NR	13 - 147	NR	20	M6
Hexachloroethane	ND	99000	28000	20000.0	ND	NR	31 - 104	NR	20	M6
Indeno(1,2,3-cd)pyrene	ND	99000	23000	20000.0	ND	NR	21 - 137	NR	20	M6
Isophorone	ND	99000	25000	20000.0	ND	NR	34 - 112	NR	20	M6
N-Nitroso-di-n propylamine	ND	99000	18000	20000.0	ND	NR	36 - 115	NR	20	M6
N-Nitrosodiphenylamine	ND	99000	9500	20000.0	ND	NR	40 - 120	NR	20	M6
Naphthalene	ND	99000	17000	20000.0	ND	NR	33 - 108	NR	20	M6
Nitrobenzene	ND	99000	17000	20000.0	ND	NR	32 - 122	NR	20	M6
Pentachlorophenol	217400	500000	15000	20000.0	ND	1090	0 - 151	6.24	20	M6
Phenanthrene	74600.0	99000	20000	20000.0	ND	373	40 - 122	1.62	20	M6
Phenol	ND	99000	10000	20000.0	ND	NR	35 - 112	NR	20	M6



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Semivolatile Organic Compounds by EPA 8270C - 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 B2B1160 - MSSEMI_NAL (continued)

Matrix Spike Dup (B2B1160-MSD1) - Continued

Source: 2200222-03

Prepared: 2/23/2022 Analyzed: 2/28/2022

Pyrene	116200	99000	22000	20000.0	ND	581	28 - 132	6.49	20	M6
Pyridine	ND	500000	80000	20000.0	ND	NR	5 - 107	NR	20	M6

Surrogate: 1,2-Dichlorobenzene-d4	6000			20000.0		30.0	23 - 102			
Surrogate: 2,4,6-Tribromophenol	0.000			30000.0		NR	3 - 138			S4
Surrogate: 2-Chlorophenol-d4	0.000			30000.0		NR	18 - 105			S4
Surrogate: 2-Fluorobiphenyl	10200			20000.0		51.0	34 - 106			
Surrogate: 2-Fluorophenol	0.000			30000.0		NR	16 - 94			S4
Surrogate: 4-Terphenyl-d14	14000			20000.0		70.0	31 - 130			
Surrogate: Nitrobenzene-d5	0.000			20000.0		NR	23 - 102			S4
Surrogate: Phenol-d6	0.000			30000.0		NR	14 - 104			S4



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

TCLP Semivolatile Organic Compounds by EPA 8270C - 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 B2D1163 - MSSEMI_LEACHEATE_W

Blank (B2D1163-BLK1)

Prepared: 4/5/2022 Analyzed: 4/5/2022

1,2,4-Trichlorobenzene	ND	0.01	0.003
1,2-Dichlorobenzene	ND	0.01	0.002
1,3-Dichlorobenzene	ND	0.01	0.002
1,4-Dichlorobenzene	ND	0.01	0.002
2,4,5-Trichlorophenol	ND	0.01	0.003
2,4,6-Trichlorophenol	ND	0.01	0.005
2,4-Dichlorophenol	ND	0.01	0.005
2,4-Dimethylphenol	ND	0.01	0.004
2,4-Dinitrophenol	ND	0.05	0.004
2,4-Dinitrotoluene	ND	0.01	0.003
2,6-Dinitrotoluene	ND	0.01	0.003
2-Chloronaphthalene	ND	0.01	0.003
2-Chlorophenol	ND	0.01	0.004
2-Methylnaphthalene	ND	0.01	0.003
2-Methylphenol	ND	0.01	0.002
2-Nitroaniline	ND	0.05	0.003
2-Nitrophenol	ND	0.01	0.005
3,3'-Dichlorobenzidine	ND	0.02	0.02
3-Nitroaniline	ND	0.05	0.003
4,6-Dinitro-2-methylphenol	ND	0.05	0.006
4-Bromophenyl-phenylether	ND	0.01	0.003
4-Chloro-3-methylphenol	ND	0.05	0.005
4-Chloroaniline	ND	0.02	0.003
4-Chlorophenyl-phenylether	ND	0.01	0.003
3/4-Methylphenol	ND	0.01	0.002
4-Methylphenol	ND	0.01	0.002
4-Nitroaniline	ND	0.02	0.003
4-Nitrophenol	ND	0.05	0.003
Acenaphthene	ND	0.01	0.003
Acenaphthylene	ND	0.01	0.002
Anthracene	ND	0.01	0.003
Benzo(a)anthracene	ND	0.01	0.004
Benzo(a)pyrene	ND	0.01	0.004
Benzo(b)fluoranthene	ND	0.01	0.005
Benzo(g,h,i)perylene	ND	0.01	0.004
Benzo(k)fluoranthene	ND	0.01	0.004
Benzoic acid	ND	0.05	0.02
Benzyl alcohol	ND	0.02	0.003
bis(2-chloroethoxy)methane	ND	0.01	0.003
bis(2-Chloroethyl)ether	ND	0.01	0.002
bis(2-chloroisopropyl)ether	ND	0.01	0.003
bis(2-ethylhexyl)phthalate	ND	0.01	0.003
Butylbenzylphthalate	ND	0.01	0.003
Chrysene	ND	0.01	0.004
Di-n-butylphthalate	ND	0.01	0.003



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TCLP Semivolatile Organic Compounds by EPA 8270C - 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 B2D1163 - MSSEMI_LEACHEATE_W (continued)

Blank (B2D1163-BLK1) - Continued

Prepared: 4/5/2022 Analyzed: 4/5/2022

Di-n-octylphthalate	ND	0.01	0.004						
Dibenz(a,h)anthracene	ND	0.01	0.004						
Dibenzofuran	ND	0.01	0.003						
Diethyl phthalate	ND	0.01	0.003						
Dimethyl phthalate	ND	0.01	0.003						
Fluoranthene	ND	0.01	0.003						
Fluorene	ND	0.01	0.003						
Hexachlorobenzene	ND	0.01	0.003						
Hexachlorobutadiene	ND	0.02	0.003						
Hexachlorocyclopentadiene	ND	0.01	0.002						
Hexachloroethane	ND	0.01	0.002						
Indeno(1,2,3-cd)pyrene	ND	0.01	0.004						
Isophorone	ND	0.01	0.003						
N-Nitroso-di-n propylamine	ND	0.01	0.002						
N-Nitrosodiphenylamine	ND	0.01	0.003						
Naphthalene	ND	0.01	0.002						
Nitrobenzene	ND	0.01	0.003						
Pentachlorophenol	ND	0.05	0.004						
Phenanthrene	ND	0.01	0.003						
Phenol	ND	0.01	0.003						
Pyrene	ND	0.01	0.003						
Pyridine	ND	0.05	0.01						

<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0.02342</i>			<i>0.100000</i>	<i>23.4</i>	<i>21 - 92</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0.04563</i>			<i>0.150000</i>	<i>30.4</i>	<i>24 - 113</i>			
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0.01963</i>			<i>0.150000</i>	<i>13.1</i>	<i>14 - 86</i>			S16
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.02401</i>			<i>0.100000</i>	<i>24.0</i>	<i>28 - 105</i>			S16
<i>Surrogate: 2-Fluorophenol</i>	<i>0.01087</i>			<i>0.150000</i>	<i>7.25</i>	<i>0 - 59</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0.03611</i>			<i>0.100000</i>	<i>36.1</i>	<i>32 - 116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.02489</i>			<i>0.100000</i>	<i>24.9</i>	<i>25 - 101</i>			S16
<i>Surrogate: Phenol-d6</i>	<i>0.008670</i>			<i>0.150000</i>	<i>5.78</i>	<i>0 - 48</i>			

LCS (B2D1163-BS1)

Prepared: 4/5/2022 Analyzed: 4/5/2022

1,2,4-Trichlorobenzene	0.05387	0.01	0.003	0.100000	53.9	37 - 96			
1,2-Dichlorobenzene	0.04567	0.01	0.002	0.100000	45.7	36 - 86			
1,3-Dichlorobenzene	0.04579	0.01	0.002	0.100000	45.8	35 - 84			
1,4-Dichlorobenzene	0.04637	0.01	0.002	0.100000	46.4	36 - 83			
2,4,5-Trichlorophenol	0.0647	0.01	0.003	0.100000	64.7	37 - 107			
2,4,6-Trichlorophenol	0.05978	0.01	0.005	0.100000	59.8	39 - 116			
2,4-Dichlorophenol	0.04895	0.01	0.005	0.100000	49.0	36 - 110			
2,4-Dimethylphenol	0.04705	0.01	0.004	0.100000	47.0	31 - 99			
2,4-Dinitrophenol	0.08085	0.05	0.004	0.100000	80.8	0 - 169			
2,4-Dinitrotoluene	0.08236	0.01	0.003	0.100000	82.4	46 - 123			
2,6-Dinitrotoluene	0.0755	0.01	0.003	0.100000	75.5	46 - 120			
2-Chloronaphthalene	0.057	0.01	0.003	0.100000	57.0	41 - 107			
2-Chlorophenol	0.03608	0.01	0.004	0.100000	36.1	24 - 89			



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TCLP Semivolatile Organic Compounds by EPA 8270C - 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 B2D1163 - MSSEMI_LEACHEATE_W (continued)

LCS (B2D1163-BS1) - Continued

Prepared: 4/5/2022 Analyzed: 4/5/2022

2-Methylnaphthalene	0.05705	0.01	0.003	0.100000		57.0	40 - 101			
2-Methylphenol	0.03071	0.01	0.002	0.100000		30.7	8 - 79			
2-Nitroaniline	0.06968	0.05	0.003	0.100000		69.7	38 - 128			
2-Nitrophenol	0.05356	0.01	0.005	0.100000		53.6	30 - 103			
3,3'-Dichlorobenzidine	0.06574	0.02	0.02	0.100000		65.7	40 - 126			
3-Nitroaniline	0.07687	0.05	0.003	0.100000		76.9	33 - 117			
4,6-Dinitro-2-methylphenol	0.08218	0.05	0.006	0.100000		82.2	5 - 155			
4-Bromophenyl-phenylether	0.07283	0.01	0.003	0.100000		72.8	46 - 110			
4-Chloro-3-methylphenol	0.05523	0.05	0.005	0.100000		55.2	29 - 116			
4-Chloroaniline	0.0522	0.02	0.003	0.100000		52.2	28 - 104			
4-Chlorophenyl-phenylether	0.07195	0.01	0.003	0.100000		72.0	45 - 111			
3/4-Methylphenol	ND	0.01	0.002			NR	13 - 100			
4-Methylphenol	0.01448	0.01	0.002	5.00000E-2		29.0	13 - 100			
4-Nitroaniline	0.07679	0.02	0.003	0.100000		76.8	38 - 112			
4-Nitrophenol	0.02369	0.05	0.003	0.100000		23.7	6 - 48			
Acenaphthene	0.06547	0.01	0.003	0.100000		65.5	38 - 109			
Acenaphthylene	0.06266	0.01	0.002	0.100000		62.7	38 - 109			
Anthracene	0.07713	0.01	0.003	0.100000		77.1	41 - 109			
Benzo(a)anthracene	0.07896	0.01	0.004	0.100000		79.0	39 - 110			
Benzo(a)pyrene	0.08093	0.01	0.004	0.100000		80.9	39 - 112			
Benzo(b)fluoranthene	0.08119	0.01	0.005	0.100000		81.2	37 - 108			
Benzo(g,h,i)perylene	0.07364	0.01	0.004	0.100000		73.6	34 - 117			
Benzo(k)fluoranthene	0.07831	0.01	0.004	0.100000		78.3	39 - 107			
Benzoic acid	0.179190	0.05	0.02	0.100000		179	0 - 149			L5
Benzyl alcohol	0.03752	0.02	0.003	0.100000		37.5	11 - 91			
bis(2-chloroethoxy)methane	0.05504	0.01	0.003	0.100000		55.0	42 - 98			
bis(2-Chloroethyl)ether	0.05036	0.01	0.002	0.100000		50.4	31 - 93			
bis(2-chloroisopropyl)ether	0.03218	0.01	0.003	0.100000		32.2	38 - 89			L4
bis(2-ethylhexyl)phthalate	0.07192	0.01	0.003	0.100000		71.9	44 - 118			
Butylbenzylphthalate	0.07505	0.01	0.003	0.100000		75.0	44 - 116			
Chrysene	0.0794	0.01	0.004	0.100000		79.4	41 - 108			
Di-n-butylphthalate	0.07516	0.01	0.003	0.100000		75.2	51 - 110			
Di-n-octylphthalate	0.07583	0.01	0.004	0.100000		75.8	36 - 127			
Dibenz(a,h)anthracene	0.0731	0.01	0.004	0.100000		73.1	35 - 116			
Dibenzofuran	0.06647	0.01	0.003	0.100000		66.5	45 - 107			
Diethyl phthalate	0.07561	0.01	0.003	0.100000		75.6	49 - 111			
Dimethyl phthalate	0.07153	0.01	0.003	0.100000		71.5	48 - 107			
Fluoranthene	0.08036	0.01	0.003	0.100000		80.4	43 - 109			
Fluorene	0.07202	0.01	0.003	0.100000		72.0	37 - 114			
Hexachlorobenzene	0.0742	0.01	0.003	0.100000		74.2	43 - 114			
Hexachlorobutadiene	0.04913	0.02	0.003	0.100000		49.1	34 - 95			
Hexachlorocyclopentadiene	0.04618	0.01	0.002	0.100000		46.2	26 - 120			
Hexachloroethane	0.04688	0.01	0.002	0.100000		46.9	33 - 89			
Indeno(1,2,3-cd)pyrene	0.07531	0.01	0.004	0.100000		75.3	35 - 116			
Isophorone	0.05825	0.01	0.003	0.100000		58.2	40 - 110			



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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 B2D1163 - MSSEMI_LEACHEATE_W (continued)

LCS (B2D1163-BS1) - Continued

Prepared: 4/5/2022 Analyzed: 4/5/2022

N-Nitroso-di-n propylamine	0.0572	0.01	0.002	0.100000		57.2	43 - 104			
N-Nitrosodiphenylamine	0.06831	0.01	0.003	0.100000		68.3	48 - 106			
Naphthalene	0.05256	0.01	0.002	0.100000		52.6	33 - 99			
Nitrobenzene	0.05352	0.01	0.003	0.100000		53.5	38 - 107			
Pentachlorophenol	0.08493	0.05	0.004	0.100000		84.9	25 - 130			
Phenanthrene	0.07671	0.01	0.003	0.100000		76.7	44 - 111			
Phenol	0.03065	0.01	0.003	0.100000		30.6	5 - 43			
Pyrene	0.08028	0.01	0.003	0.100000		80.3	42 - 108			
Pyridine	0.01505	0.05	0.01	0.100000		15.0	0 - 59			

<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0.04673</i>			<i>0.100000</i>		<i>46.7</i>	<i>21 - 92</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0.1269</i>			<i>0.150000</i>		<i>84.6</i>	<i>24 - 113</i>			
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0.05493</i>			<i>0.150000</i>		<i>36.6</i>	<i>14 - 86</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.05371</i>			<i>0.100000</i>		<i>53.7</i>	<i>28 - 105</i>			
<i>Surrogate: 2-Fluorophenol</i>	<i>0.02696</i>			<i>0.150000</i>		<i>18.0</i>	<i>0 - 59</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0.07276</i>			<i>0.100000</i>		<i>72.8</i>	<i>32 - 116</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.05254</i>			<i>0.100000</i>		<i>52.5</i>	<i>25 - 101</i>			
<i>Surrogate: Phenol-d6</i>	<i>0.02288</i>			<i>0.150000</i>		<i>15.3</i>	<i>0 - 48</i>			

LCS Dup (B2D1163-BSD1)

Prepared: 4/5/2022 Analyzed: 4/5/2022

1,2,4-Trichlorobenzene	0.0528	0.01	0.003	0.100000		52.8	37 - 96	2.01	20	
1,2-Dichlorobenzene	0.04634	0.01	0.002	0.100000		46.3	36 - 86	1.46	20	
1,3-Dichlorobenzene	0.04358	0.01	0.002	0.100000		43.6	35 - 84	4.95	20	
1,4-Dichlorobenzene	0.04577	0.01	0.002	0.100000		45.8	36 - 83	1.30	20	
2,4,5-Trichlorophenol	0.0593	0.01	0.003	0.100000		59.3	37 - 107	8.71	20	
2,4,6-Trichlorophenol	0.05648	0.01	0.005	0.100000		56.5	39 - 116	5.68	20	
2,4-Dichlorophenol	0.04409	0.01	0.005	0.100000		44.1	36 - 110	10.4	20	
2,4-Dimethylphenol	0.03976	0.01	0.004	0.100000		39.8	31 - 99	16.8	20	
2,4-Dinitrophenol	0.07164	0.05	0.004	0.100000		71.6	0 - 169	12.1	20	
2,4-Dinitrotoluene	0.07813	0.01	0.003	0.100000		78.1	46 - 123	5.27	20	
2,6-Dinitrotoluene	0.0754	0.01	0.003	0.100000		75.4	46 - 120	0.133	20	
2-Chloronaphthalene	0.05841	0.01	0.003	0.100000		58.4	41 - 107	2.44	20	
2-Chlorophenol	0.03057	0.01	0.004	0.100000		30.6	24 - 89	16.5	20	
2-Methylnaphthalene	0.05626	0.01	0.003	0.100000		56.3	40 - 101	1.39	20	
2-Methylphenol	0.02738	0.01	0.002	0.100000		27.4	8 - 79	11.5	20	
2-Nitroaniline	0.07053	0.05	0.003	0.100000		70.5	38 - 128	1.21	20	
2-Nitrophenol	0.04485	0.01	0.005	0.100000		44.8	30 - 103	17.7	20	
3,3'-Dichlorobenzidine	0.0633	0.02	0.02	0.100000		63.3	40 - 126	3.78	20	
3-Nitroaniline	0.07585	0.05	0.003	0.100000		75.8	33 - 117	1.34	20	
4,6-Dinitro-2-methylphenol	0.07428	0.05	0.006	0.100000		74.3	5 - 155	10.1	20	
4-Bromophenyl-phenylether	0.07539	0.01	0.003	0.100000		75.4	46 - 110	3.45	20	
4-Chloro-3-methylphenol	0.04596	0.05	0.005	0.100000		46.0	29 - 116	18.3	20	
4-Chloroaniline	0.04993	0.02	0.003	0.100000		49.9	28 - 104	4.45	20	
4-Chlorophenyl-phenylether	0.07544	0.01	0.003	0.100000		75.4	45 - 111	4.74	20	
3/4-Methylphenol	ND	0.01	0.002			NR	13 - 100	NR	20	
4-Methylphenol	0.01321	0.01	0.002	5.00000E-2		26.4	13 - 100	9.17	20	



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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 B2D1163 - MSSEMI_LEACHEATE_W (continued)

LCS Dup (B2D1163-BSD1) - Continued

Prepared: 4/5/2022 Analyzed: 4/5/2022

4-Nitroaniline	0.07577	0.02	0.003	0.100000		75.8	38 - 112	1.34	20	
4-Nitrophenol	0.02396	0.05	0.003	0.100000		24.0	6 - 48	1.13	20	
Acenaphthene	0.06819	0.01	0.003	0.100000		68.2	38 - 109	4.07	20	
Acenaphthylene	0.0646	0.01	0.002	0.100000		64.6	38 - 109	3.05	20	
Anthracene	0.08025	0.01	0.003	0.100000		80.2	41 - 109	3.96	20	
Benzo(a)anthracene	0.07824	0.01	0.004	0.100000		78.2	39 - 110	0.916	20	
Benzo(a)pyrene	0.08046	0.01	0.004	0.100000		80.5	39 - 112	0.582	20	
Benzo(b)fluoranthene	0.08532	0.01	0.005	0.100000		85.3	37 - 108	4.96	20	
Benzo(g,h,i)perylene	0.07351	0.01	0.004	0.100000		73.5	34 - 117	0.177	20	
Benzo(k)fluoranthene	0.07706	0.01	0.004	0.100000		77.1	39 - 107	1.61	20	
Benzoic acid	0.167880	0.05	0.02	0.100000		168	0 - 149	6.52	20	L5
Benzyl alcohol	0.03565	0.02	0.003	0.100000		35.6	11 - 91	5.11	20	
bis(2-chloroethoxy)methane	0.05312	0.01	0.003	0.100000		53.1	42 - 98	3.55	20	
bis(2-Chloroethyl)ether	0.04878	0.01	0.002	0.100000		48.8	31 - 93	3.19	20	
bis(2-chloroisopropyl)ether	0.03136	0.01	0.003	0.100000		31.4	38 - 89	2.58	20	L4
bis(2-ethylhexyl)phthalate	0.07168	0.01	0.003	0.100000		71.7	44 - 118	0.334	20	
Butylbenzylphthalate	0.0742	0.01	0.003	0.100000		74.2	44 - 116	1.14	20	
Chrysene	0.07849	0.01	0.004	0.100000		78.5	41 - 108	1.15	20	
Di-n-butylphthalate	0.07657	0.01	0.003	0.100000		76.6	51 - 110	1.86	20	
Di-n-octylphthalate	0.0762	0.01	0.004	0.100000		76.2	36 - 127	0.487	20	
Dibenz(a,h)anthracene	0.07218	0.01	0.004	0.100000		72.2	35 - 116	1.27	20	
Dibenzofuran	0.06896	0.01	0.003	0.100000		69.0	45 - 107	3.68	20	
Diethyl phthalate	0.07625	0.01	0.003	0.100000		76.2	49 - 111	0.843	20	
Dimethyl phthalate	0.0711	0.01	0.003	0.100000		71.1	48 - 107	0.603	20	
Fluoranthene	0.082	0.01	0.003	0.100000		82.0	43 - 109	2.02	20	
Fluorene	0.07403	0.01	0.003	0.100000		74.0	37 - 114	2.75	20	
Hexachlorobenzene	0.07737	0.01	0.003	0.100000		77.4	43 - 114	4.18	20	
Hexachlorobutadiene	0.04969	0.02	0.003	0.100000		49.7	34 - 95	1.13	20	
Hexachlorocyclopentadiene	0.04519	0.01	0.002	0.100000		45.2	26 - 120	2.17	20	
Hexachloroethane	0.04262	0.01	0.002	0.100000		42.6	33 - 89	9.52	20	
Indeno(1,2,3-cd)pyrene	0.07561	0.01	0.004	0.100000		75.6	35 - 116	0.398	20	
Isophorone	0.05875	0.01	0.003	0.100000		58.8	40 - 110	0.855	20	
N-Nitroso-di-n propylamine	0.05409	0.01	0.002	0.100000		54.1	43 - 104	5.59	20	
N-Nitrosodiphenylamine	0.07023	0.01	0.003	0.100000		70.2	48 - 106	2.77	20	
Naphthalene	0.05168	0.01	0.002	0.100000		51.7	33 - 99	1.69	20	
Nitrobenzene	0.05246	0.01	0.003	0.100000		52.5	38 - 107	2.00	20	
Pentachlorophenol	0.07732	0.05	0.004	0.100000		77.3	25 - 130	9.38	20	
Phenanthrene	0.07805	0.01	0.003	0.100000		78.0	44 - 111	1.73	20	
Phenol	0.028	0.01	0.003	0.100000		28.0	5 - 43	9.04	20	
Pyrene	0.08074	0.01	0.003	0.100000		80.7	42 - 108	0.571	20	
Pyridine	0.0143	0.05	0.01	0.100000		14.3	0 - 59	5.11	20	

Surrogate: 1,2-Dichlorobenzene-d4	0.04558			0.100000		45.6	21 - 92			
Surrogate: 2,4,6-Tribromophenol	0.1198			0.150000		79.9	24 - 113			
Surrogate: 2-Chlorophenol-d4	0.04528			0.150000		30.2	14 - 86			
Surrogate: 2-Fluorobiphenyl	0.05557			0.100000		55.6	28 - 105			



Certificate of Analysis

Vista Environmental
 1054 North Tustin Avenue
 Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
 Report To : Andrew Schmidt
 Reported : 04/11/2022

TCLP Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B2D1163 - MSSEMI_LEACHEATE_W (continued)

LCS Dup (B2D1163-bsd1) - Continued

Prepared: 4/5/2022 Analyzed: 4/5/2022

Surrogate: 2-Fluorophenol	0.02377		0.150000		15.8	0 - 59		
Surrogate: 4-Terphenyl-d14	0.07253		0.100000		72.5	32 - 116		
Surrogate: Nitrobenzene-d5	0.05098		0.100000		51.0	25 - 101		
Surrogate: Phenol-d6	0.01997		0.150000		13.3	0 - 48		

2200224



VISTA ENVIRONMENTAL CONSULTING 4.800

Environmental Bulk Sample Log

Sacramento Oakland Monterey Anaheim San Diego

Client: Leighton

Date: 23 February 2022

Site/Location: March ARB

Project Number: 21 0210 021

Sampled By: Yvan Schmidt

CAC/CSST Number: N/A

Sample No.	Sample Description/Location	Container	Sample Time	Analysis		
1	O-1 Pole W460, middle transformer	6.8 L Pyrex	0830	EPA 8082		
2	W-1 Feed line down Pole W460	↓	0835	↓		
3	TW-1 Pole W460		0840-0855		EPA 8270 & EPA 6010B (As/Cu/Cr)	
4	TW-2 Security Light Pole near Pole W460					
5	TW-3 Perimeter Light Pole due west of Pole W460					
6	O-2 Pole W423, Right Transformer (from road view)				0925	EPA 8082
7	W-2 Feed line down Pole W423				0930	
8	TW-4 Pole W423		0925-1010	EPA 8270 & EPA 6010B (As/Cu/Cr)		
9	TW-5 Security Light Pole to west of W423					
10	TW-6 Perimeter Light Pole due North of W423					

Analytical Method: PLM Turnaround Time: Same Day 24hr 48 HR 5 day

Data Sent To: Via E-Mail: andrew.schmidt@vista-env.com Questions call: (714) 289-2600

Special Instructions: Standard T/A (Metals of Concern are Arsenic, Copper & Chromium)

CHAIN OF CUSTODY:

1. Yvan Schmidt PM 2/23/22 @ 1248
 Signature Title Inclusive Dates

2. Dannyle _____ 2/23/22 12:48
 Signature Title Inclusive Dates

Page 1 of 3

2200224



Environmental Bulk Sample Log

Sacramento Oakland Monterey Anaheim San Diego

Client: Leighton

Date: 23 February 2022

Site/Location: March ARB

Project Number: 21 0210 021

Sampled By: Yvan Schmidt

CAC/CSST Number: _____

Sample No.	Sample Description/Location	Container	Sample Time	Analysis		
11 O-3	Unnumbered Pole 16' East of Pole W406, Left Transformer	6 or 8 oz Pyrex	1020	EPA 8082		
12 W-3	Feed Line down pole 10' East of Pole W406	↓	1025	↓		
13 TW-7	Pole W406		1015-1035		EPA 8270 & EPA 6010B (As/Cu/Cr)	
14 TW-8	Security Light Pole 20 yards South of Pole W406					
15 TW-9	Perimeter Light Pole to South of Sally Port					
16 TW-10	Communication Pole South of Building 6, at Sally Port				1045	
E-1	On ground, East of Building 6				1050	EPA 8082 (interior)
E-2	Building 6, Room 2nd From North, on Floor				1052	
E-3	Doorway to Room E-2 was collected in.				1055	
17 TW-11	Substation NE of Building 2, NW Main Pole				1110	EPA 8270 & EPA 6010B (As/Cu/Cr)

Analytical Method: PLM Turnaround Time: Same Day 24hr 48 HR 5 day

Data Sent To: Via E-Mail: andrew.schmidt@vista-env.com Questions call: (714) 289-2600

Special Instructions: Standard T/A

CHAIN OF CUSTODY:

1. Yvan Schmidt PM 2/23/22 @ 1248
Signature Title Inclusive Dates

2. [Signature] _____ 2/23/22 12:48
Signature Title Inclusive Dates

2200224



Environmental Bulk Sample Log

Sacramento Oakland Monterey Anaheim San Diego

Client: Leighton

Date: 23 February 2022

Site/Location: March ARB

Project Number: 21 0210 021

Sampled By: Yvan Schmidt

CAC/CSST Number: _____

Sample No.	Sample Description/Location	Container	Sample Time	Analysis
18 TW-K	Substation NE of Building 2, Lumber cross member	6oz Pyrex	1115	EPA 8230 & EPA 6010B (Pb/Cu/Cr)
	21 Samples, total			

Analytical Method: PLM Turnaround Time: Same Day 24hr 48 HR 5 day

Data Sent To: Via E-Mail: andrew.schmidt@vista-env.com Questions call: (714) 289-2600

Special Instructions: Standard T/A

CHAIN OF CUSTODY:

1. Yvan Schmidt PM 2/23/22 12:48
 Signature Title Inclusive Dates

2. Dannyle _____ 2/23/22 12:48
 Signature Title Inclusive Dates

Victoria Michel

From: Andrew Schmidt <andrew.schmidt@vista-env.com>
Sent: Monday, April 4, 2022 4:18 PM
To: Victoria Michel
Subject: Re: Preliminary Results / March ARB _ 21 0210 021 / 2200224

As per below, 8270 for Pentachlorophenol only. None of the metals levels encountered require TCLP analysis.

Thank you

Sent from my iPhone

On Apr 4, 2022, at 4:04 PM, Victoria Michel <Victoria.Michel@atlglobal.com> wrote:

Good Afternoon Andrew,

For the TCLP Digestion, do you need it for metals or the 8270 Pentachlorophenol?

Please let me know at your earliest convenience.

PLEASE NOTE: Our legal name is Environmental Treatment & Technology Inc., dba Advanced Technology Laboratories.

Best regards,



Victoria Michel | Project Assistant
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755 | www.atlglobal.com
Tel: 562.989.4045 ext. 238 | Fax: 562.989.6348

Laboratory Excellence Defined

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, Oregon (NELAP), and DoD (Mobile Lab, EPA 8260 Modified) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates.

This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.

From: Andrew Schmidt <andrew.schmidt@vista-env.com>
Sent: Monday, April 4, 2022 3:45 PM
To: Victoria Michel <Victoria.Michel@atlglobal.com>
Subject: Re: Preliminary Results / March ARB _ 21 0210 021 / 2200224

Victoria,

Can we please request that you perform additional analysis of Samples TW-3 and TW-9 from this work order? Please perform a TCLP digestion and then re-run EPA Method 8270 for Pentachlorophenol.

If possible, I would like to see this completed on a 72 hour turnaround.

Best regards,

Yvan A. Schmidt
Senior Project Manager
Vista Environmental Consulting, Inc.
(714) 746-7644
andrew.schmidt@vista-env.com

From: Victoria Michel <Victoria.Michel@atlglobal.com>
To: "andrew.schmidt@vista-env.com" <andrew.schmidt@vista-env.com>
Sent: 3/4/2022 4:54 PM
Subject: RE: Preliminary Results / March ARB _ 21 0210 021 / 2200224

Good Evening Andrew,

Please find your results for the above project attached.

Please Note: unless there are scheduled analyses that are pending, or we are otherwise instructed, the samples included in this report will be disposed of after 45 days from the date we received the samples. Any request for storage beyond 45 days will be invoiced at a flat-rate of \$2/ sample/ month. For samples that are requested for Extended Hold, an invoice will be provided at the end of each month.

If I can further assist in any way, please let me know.

PLEASE NOTE: Our legal name is Environmental Treatment & Technology Inc., dba Advanced Technology Laboratories.

Best regards,



Victoria Michel | Project Assistant
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755 | www.atlglobal.com
Tel: 562.989.4045 ext. 248 | Fax: 562.989.6348

Laboratory Excellence Defined

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From: Victoria Michel
Sent: Wednesday, March 2, 2022 6:17 PM
To: 'andrew.schmidt@vista-env.com' <andrew.schmidt@vista-env.com>
Subject: Preliminary Results / March ARB _ 21 0210 021 / 2200224

Good Evening Andrew,

Attached are the preliminary results for 2200224.

We're pending final review/approval for 8082.

Please let me know if I can further assist you.

PLEASE NOTE: Our legal name is Environmental Treatment & Technology Inc., dba Advanced Technology Laboratories.

Best regards,



Victoria Michel | Project Assistant
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755 | www.atlglobal.com
Tel: 562.989.4045 ext. 238 | Fax: 562.989.6348

Laboratory Excellence Defined

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Modified) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates.

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March 07, 2022

Andrew Schmidt
Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807
Tel: (714) 289-2600
Fax:

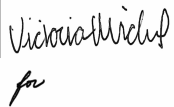
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 2200266
Client Reference : 21 0210 021

Enclosed are the results for sample(s) received on March 01, 2022 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 Project.Management@atlglobal.com.

Sincerely,



Victoria Michel, Project Assistant
Victoria.Michel@atlglobal.com

Authorized to Release on 03/07/22 09:42 on Behalf of



Amy Leung
Laboratory Director

The test results in this report relate exclusively to the samples as received by the laboratory, and meet the requirements of the methodology under which they were reported; any exceptions are noted within the report and/ or case narrative.

The cover letter/ signature page and the case narrative are integral parts of this analytical report; the absence of any portion of the report renders the report invalid. This report shall not be reproduced except in full, and shall have the express written approval of the laboratory, and the original client firm to do so

The electronic signature on this report is signed by an authorized signatory of Advanced Technology Laboratories, and is intended to be legally binding as the equivalent of a handwritten signature.



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : 21 0210 021
Report To : Andrew Schmidt
Reported : 03/07/2022

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-01	2200266-01	Soil	2/23/22 10:50	3/01/22 12:05
C-02	2200266-02	Soil	2/23/22 10:52	3/01/22 12:05
C-03	2200266-03	Soil	2/23/22 10:55	3/01/22 12:05



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : 21 0210 021
Report To : Andrew Schmidt
Reported : 03/07/2022

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.

Client Sample ID: C-01

Lab ID: 2200266-01

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1221	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1232	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1242	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1248	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1254	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1260	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Surrogate: Decachlorobiphenyl	61.7 %	0 - 87		B2C0891	03/01/2022	03/02/22 13:57	
Surrogate: Tetrachloro-m-xylene	45.7 %	0 - 103		B2C0891	03/01/2022	03/02/22 13:57	



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : 21 0210 021
Report To : Andrew Schmidt
Reported : 03/07/2022

Client Sample ID: C-02

Lab ID: 2200266-02

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1221	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1232	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1242	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1248	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1254	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1260	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
<i>Surrogate: Decachlorobiphenyl</i>	<i>49.5 %</i>	<i>0 - 87</i>		B2C0891	03/01/2022	<i>03/02/22 14:16</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>38.4 %</i>	<i>0 - 103</i>		B2C0891	03/01/2022	<i>03/02/22 14:16</i>	

Client Sample ID: C-03

Lab ID: 2200266-03

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1221	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1232	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1242	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1248	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1254	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1260	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
<i>Surrogate: Decachlorobiphenyl</i>	<i>60.3 %</i>	<i>0 - 87</i>		B2C0891	03/01/2022	<i>03/02/22 14:36</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>50.5 %</i>	<i>0 - 103</i>		B2C0891	03/01/2022	<i>03/02/22 14:36</i>	



Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : 21 0210 021
Report To : Andrew Schmidt
Reported : 03/07/2022

QUALITY CONTROL SECTION

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0891 - GCSEMI_PCB/PEST_S										
Blank (B2C0891-BLK1)					Prepared: 3/1/2022 Analyzed: 3/2/2022					
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							
<hr/>										
Surrogate: Decachlorobiphenyl	11.58			16.6667		69.5	0 - 87			
Surrogate: Tetrachloro-m-xylene	9.992			16.6667		60.0	0 - 103			
<hr/>										
LCS (B2C0891-BS1)					Prepared: 3/1/2022 Analyzed: 3/2/2022					
Aroclor 1016	96.5530	16	1.9	166.667		57.9	11 - 108			
Aroclor 1260	120.547	16	1.9	166.667		72.3	19 - 112			
<hr/>										
Surrogate: Decachlorobiphenyl	11.19			16.6667		67.2	0 - 87			
Surrogate: Tetrachloro-m-xylene	9.845			16.6667		59.1	0 - 103			
<hr/>										
Matrix Spike (B2C0891-MS1)					Source: 2200270-01		Prepared: 3/1/2022 Analyzed: 3/2/2022			
Aroclor 1016	92.5520	16	1.9	166.667	ND	55.5	0 - 135			
Aroclor 1260	106.704	16	1.9	166.667	3.46950	61.9	0 - 127			
<hr/>										
Surrogate: Decachlorobiphenyl	10.39			16.6667		62.3	0 - 87			
Surrogate: Tetrachloro-m-xylene	10.30			16.6667		61.8	0 - 103			
<hr/>										
Matrix Spike Dup (B2C0891-MSD1)					Source: 2200270-01		Prepared: 3/1/2022 Analyzed: 3/2/2022			
Aroclor 1016	97.2793	16	1.9	166.667	ND	58.4	0 - 135	4.98	20	
Aroclor 1260	106.016	16	1.9	166.667	3.46950	61.5	0 - 127	0.647	20	
<hr/>										
Surrogate: Decachlorobiphenyl	10.22			16.6667		61.3	0 - 87			
Surrogate: Tetrachloro-m-xylene	10.15			16.6667		60.9	0 - 103			

2200266



Environmental Bulk Sample Log

Sacramento Oakland Monterey Anaheim San Diego

Client: Leighton

Date: 23 February 2022

Site/Location: March ARB

Project Number: 21 0210 021

Sampled By: Yvan Schmidt

CAC/CSST Number: _____

Sample No.	Sample Description/Location	Container	Sample Time	Analysis
1 C-01	Capacitor guts, collected on ground East of Building C	4 oz Flyer	1050	EPA 8082
2 C-02	Capacitor Guts, collected from ground in 2nd Room from North	↓	1052	↓
3 C-03	Capacitor Guts, from doorway to 2nd Room from North	↓	1055	↓
3 Samples				
[Large handwritten scribble covering the bottom half of the table]				

Analytical Method: PLM Turnaround Time: Same Day 24hr 48 HR 5 day

Data Sent To: Via E-Mail: andrew.schmidt@vista-env.com Questions call: (714) 289-2600

Special Instructions: _____

CHAIN OF CUSTODY:

1. [Signature] PM 2/23/22 - 3/1/22 @ 1205
 Signature Title Inclusive Dates

2. [Signature] ATL 3/1/22 12:05
 Signature Title Inclusive Dates

Page 1 of 1

**ATTACHMENT B -
LABORATORY CERTIFICATIONS**

Appendix C: CA-ELAP Certificate

 <p>CALIFORNIA Water Boards <small>STATE WATER RESOURCES CONTROL BOARD REGIONAL WATER QUALITY CONTROL BOARDS</small></p>	Interim	
CALIFORNIA STATE		
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM		
CERTIFICATE OF ENVIRONMENTAL ACCREDITATION		
Is hereby granted to		
Advanced Technology Laboratories		
3275 Walnut Avenue Signal Hill, CA 90755		
Scope of the certificate is limited to the "Fields of Testing" which accompany this Certificate.		
Continued accredited status depends on successful completion of on-site inspection, proficiency testing studies, and payment of applicable fees.		
This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.		
Certificate No.: 1838		
Expiration Date: 12/31/2021		
Effective Date: 1/1/2021		
Sacramento, California subject to forfeiture or revocation		
	Christine Sotelo, Chief Environmental Laboratory Accreditation Program	

Appendix C: Accreditations

Appendix C: NELAP Certificate



Appendix C: Accreditations

Appendix C: DBE Certificate – Caltrans / CUCP

**CALIFORNIA UNIFIED CERTIFICATION PROGRAM
DISADVANTAGED BUSINESS ENTERPRISE CERTIFICATE**

ADVANCED TECHNOLOGY LABORATORIES
3275 WALNUT AVENUE
SIGNAL HILL, CA 90755

Owner: EDGAR CABALLERO
Business Structure: CORPORATION

This certificate acknowledges that said firm is approved by the California Unified Certification Program (CUCP) as a Disadvantaged Business Enterprise (DBE) as defined by the U.S. Department of Transportation (DOT) CFR 49 Part 26, as may be amended, for the following NAICS codes:

NAICS Code(s) * Indicates primary NAICS code
* 541380 Testing Laboratories

Work Category Code(s)

18730	RESEARCH & TESTING SERVICES	18734	LABORATORY TESTING AND ANALYSIS
-------	-----------------------------	-------	---------------------------------

Licenses


UNIFIED CERTIFICATION PROGRAM

CERTIFYING AGENCY:
DEPARTMENT OF TRANSPORTATION
1823 14TH STREET
SACRAMENTO, CA 95811 0000
(916) 324-1700

UCP Firm Number : 20968


CUCP OFFICER

April 8, 2011

Appendix C: Accreditations

Appendix C: DBE Certificate – CUCP/Caltrans (continued)

CALIFORNIA UNIFIED CERTIFICATION PROGRAM (CUCP)



DEPARTMENT OF TRANSPORTATION
CIVIL RIGHTS
1823 - 14th STREET, MS-79
SACRAMENTO, CA 95814

Phone (916) 324-1700
Free (866) 810-6346
Fax (916) 324-1862
TTY (916) 324-2252

County codes as defined by Caltrans are listed below. If you wish to work anywhere in the State you may use the Statewide (SW) code.

SW STATEWIDE
(ALL COUNTIES)

01 ALAMEDA	21 MARIN	41 SAN MATEO
02 ALPINE	22 MARIPOSA	42 SANTA BARBARA
03 AMADOR	23 MENDOCINO	43 SANTA CLARA
04 BUTTE	24 MERCED	44 SANTA CRUZ
05 CALAVERAS	25 MODOC	45 SHASTA
06 COLUSA	26 MONO	46 SIERRA
07 CONTRA COSTA	27 MONTEREY	47 SISKIYOU
08 DEL NORTE	28 NAPA	48 SOLANO
09 EL DORADO	29 NEVADA	49 SONOMA
10 FRESNO	30 ORANGE	50 STANISLAUS
11 GLENN	31 PLACER	51 SUTTER
12 HUMBOLDT	32 PLUMAS	52 TEHAMA
13 IMPERIAL	33 RIVERSIDE	53 TRINITY
14 INYO	34 SACRAMENTO	54 TULARE
15 KERN	35 SAN BENITO	55 TUOLUMNE
17 LAKE	36 SAN BERNARDINO	56 VENTURA
16 KINGS	37 SAN DIEGO	57 YOLO
18 LASSEN	38 SAN FRANCISCO	58 YUBA
19 LOS ANGELES	39 SAN JOAQUIN	
20 MADERA	40 SAN LUIS OBISPO	

Sincerely,

RITA A. NELSON, Chief
Office of Certification

Appendix C: MBE Certificate – Supplier Clearinghouse



Appendix C: SBE Certificate – Metro



Metro

Los Angeles County
Metropolitan Transportation Authority

One Gateway Plaza
Los Angeles, CA 90012-2952

213-922-2000 Tel
metro.net

April 27, 2018

Metro File #7762

Mr. EDGAR CABALLERO
Environmental Treatment and Technology, Inc. DBA Advanced Technology Laboratories
P.O. BOX 92797
LONG BEACH, CA 90809

Subject: Small Business Enterprise Certification

Dear Mr. EDGAR CABALLERO:

We are pleased to advise you that after careful review of your application and supporting documentation, the Los Angeles County Metropolitan Transportation Authority (Metro) has determined that your firm meets the eligibility standards to be certified as a Small Business Enterprise (SBE) as required under Metro's SBE Program. Your firm will be listed in Metro's SBE database of certified SBEs under the following specific areas of expertise:

NAICS 541380: TESTING LABORATORIES
NAICS 562910: REMEDIATION SERVICES

Your SBE certification is valid for five years from the date of this letter and applies only for the above NAICS code(s). Any additions and revisions must be submitted to Metro for review and approval.

In order to ensure your continuing SBE status, you are required to submit an annual update along with supporting documentation. If no changes are noted, then your SBE status remains current. If there are changes, Metro will review to determine continued SBE eligibility. Please note, your SBE status remains in effect unless Metro notifies you otherwise.

After the five-year certification period, your entire file will be reviewed in order to ascertain continued SBE certification status. You will be notified of the pending SBE status review and any documentation updates necessary prior to the expiration date.

Also, should any changes occur that could affect your certification status prior to receipt of the annual update application, such as changes in your firm's name, business/ mailing address, ownership, management or control, or failure to meet the applicable business size standards or personal net worth standard, please notify Metro immediately.

Metro reserves the right to withdraw this certification if at any time it is determined that it was knowingly obtained by false, misleading, or incorrect information. Your SBE certification is subject to review at any time. The firm thereby consents to the examination of its books, records, and documents by Metro.

Congratulations, and thank you for your interest in Metro's SBE Program. Should you have any questions, please contact us at (213) 922-2600. For information on Metro contracting opportunities, please visit our website at www.metro.net.

Sincerely,

Shirley Wong
Sr. Certification Officer
Diversity & Economic Opportunity Department

Appendix C: SBE Certificate – California Dept. of General Services

7/16/2020

Supplier Profile

Printed on: 7/16/2020 1:09:41 PM

To verify most current certification status go to: <https://www.caleprocure.ca.gov>



Office of Small Business & DVBE Services

Certification ID: 61086

Legal Business Name:
ENVIRONMENTAL TREATMENT &
TECHNOLOGY INC

Doing Business As (DBA) Name 1:
ADVANCED TECHNOLOGY LABORATORIES

Doing Business As (DBA) Name 2:

Address:
3275 WALNUT AVENUE
SIGNAL HILL
CA 90755

Email Address:

christine.caballero@atlglobal.com

Business Web Page:

<http://www.atlglobal.com>

Business Phone Number:

562/989-4045

Business Fax Number:

562/989-6348

Business Types:

Service

Certification Type	Status	From	To
SB(Micro)	Approved	07/15/2020	07/31/2022
SB-PW	Approved	07/16/2020	07/31/2022

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED!
-LOG IN at [CaleProcure.CA.GOV](https://www.caleprocure.ca.gov)

Questions?

Email: OSDSHELP@DGS.CA.GOV

Call OSDS Main Number: 916-375-4940

707 3rd Street, 1-400, West Sacramento, CA 95605

