

MAUL FOSTER Technical Memorandum

To:	Mark Pugh, Oregon DEQ
From:	Krysta Krippaehne-Stein, PE Kathy Lombardi, PE
Date:	May 20, 2025
Project No.:	M0496.02.004
Re:	Block 2 Demolition Completion Summary

This memorandum summarizes demolition of the former Blue Heron Block 2, comprised of the Third Street Complex, the No. 2 and No. 3 Paper Machine Complex, and the Mill D Complex, located at the former Blue Heron paper mill site at 419 Main Street, Oregon City, Oregon (the Property) (Figure 1-1), and was prepared by Maul Foster & Alongi, Inc. for the owner of the Property, The Confederated Tribes of Grand Ronde. Block 2 was located on the central portion of the Property between Main Street and the Willamette River (Figure 1-2). Work was completed per the following Removal Action Plans (RAPs):

- Third Street Complex dated September 23, 2022
- No. 2 and No. 3 Paper Machine Complex dated November 21, 2022 •
- Mill D Complex dated September 22, 2022

Project Description

The Third Street Complex was constructed in the 1960s as a covered storage and operations area. The Butler Building was constructed following the removal of an office building after 1967. The No. 2 Paper Machine was constructed in 1910, and the No. 3 Paper Machine was constructed by 1913. The Mill D Complex was constructed in 1916 and modified between 1945 and 1946.

Permits

Work was performed under the following building and demolition permits issued by the City of Oregon City:

- Third Street Complex (No. BDEMO-22-00016) •
- Mill D Complex (No. BDEMO-22-00017) •
- No. 2 and No. 3 Paper Machine Complex (No. BDEMO-22-00020)

A copy of each permit is included as Attachment 1. No other permits were required.

Demolition Summary

Demolition was performed between January and June 2023 by Elder Demolition (Contractor) in accordance with the RAP. Details of the demolition are described below. A photo log of demolition activities is included as Attachment 2.

Hazardous Building Materials Abatement

Hazardous building materials (HBM) were removed from the Mill D Complex and the No. 2 and No. 3 Paper Machine Complex before structural demolition started. IRS Environmental completed remediation of asbestos at the site in January and February of 2023. Materials abated included built up roofing, floor tile and mastic, and CAB panels.

Materials were packaged according to Oregon Administrative Rules 340, Division 248 in double 6mil bags or loaded to a 40 cubic yard roll-off box and enclosed in a similar 6-mil plastic membrane. Sealed packages were labeled with an asbestos hazard warning label, then disposed off site at Waste Management Hillsboro Landfill and Wasco County Landfill. Asbestos waste shipment report forms (ASN 4) are included in Attachment 3.

General Demolition

Once HBM was removed, the Contractor removed structures generally as described in the RAP. Nonhazardous materials were either loaded into 40 cubic yard roll-off containers and collected by Oregon City Garbage for off site disposal or salvaged for recycling. All three complexes were removed to their existing concrete building slabs or asphalt following demolition. Disposal records for general demolition materials and Gully Washers are included in Attachment 4. Analytical reports for disposal characterization of the Gully Washers are included in Attachment 5.

The Contractor implemented and maintained stormwater best management practices and dust control throughout the project.

Site Cleanup

Once demolition was complete, the Contractor removed all debris and swept the surrounding work areas to remove small debris and dust. Photos of the final site condition are included in Attachment 2.

Issues and Changes

The following sections summarize the sampling and disposal of dye-impacted material, oil-stained concrete, and aboveground storage tank (AST) materials.

Dye-Impacted Material Sampling and Disposal

In April 2023, colored stormwater was observed in the detention pond upstream of Outfall 5. The source of the colored stormwater was determined to be from pink dye released onto concrete surfaces during demolition activities. Analytical reports for concrete and water characterization are included in Attachment 6. Dye-impacted concrete was disposed of off site at Waste Management Hillsboro Landfill (see Attachment 7). Dye-impacted stormwater was pumped into baker tanks and disposed of off site by River City Environmental (see Attachment 7).

Oil-Stained Concrete Sampling and Disposal

Oil-stained concrete was sampled by Maul Foster & Alongi, Inc. on June 28, 2023. The analytical report for characterization is included in Attachment 5. The concrete was disposed of off site at Waste Management Hillsboro Landfill (see Attachment 8).

AST Sampling and Disposal

Three ASTs with unknown contents were identified during demolition. One AST contained liquid, and two ASTs contained fibrous solids. The ASTs were sampled by US Ecology on March 29, 2023. Analytical reports for characterization are included in Attachment 9. The solids were disposed of with the general demolition waste. The liquid was disposed of off site by Thermal Fluids.

Attachments

Limitations

Figures

- 1–Permit
- 2-Photographic Log
- 3-Asbestos Closeout Documentation
- 4-General Disposal Records
- 5-Gully Washer and Oil-Stained Concrete Analytical Reports
- 6-Dye-Impacted Material Analytical Reports
- 7-Dye-Impacted Material Disposal Records
- 8-Oil-Stained Concrete Disposal Records
- 9-AST Analytical Reports

Limitations

The services undertaken in completing this technical memorandum were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This technical memorandum is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this technical memorandum apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this technical memorandum.

Figures







Notes

U.S. Geological Survey 7.5-minute topographic quadrangle (2020): Oregon City. Township 2 south, range 2 east, section 31.

Data Source

Property tax lot obtained from Oregon Metro.



MAULFOSTERALONGI p. 971 544 2139 | www.maulfoster.com

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Legend Property Boundary

Figure 1-1 Property Location 419 Main Street

419 Main Street Oregon City, OR





Attachment 1

Permits





Permit NO.: BDEMO-22-00016 Permit IVR Number: 116050

Permit Type: Demolition

Work Classification: Non-Residential

Expiration: 07/18/2023

Permit Status: Issued

Issue Date: 01/19/2023

Location Address

Parcel Number

erm

419 MAIN ST, OREGON CITY, OR 97045

2-2E-31BD-00300

Contacts

Ryan Webb Owner	Shannon Ham-Texeira Applicant 9615 Grand Ronde rd., Grand ARonde, OR 97347
ryan.webb@grandronde.org	shannon.ham-texeira@grandronde.
	org
Jacob Faust Applicant	Elder Demolition Contractor
6 Centerpointe DR Ste 360, Lake Oswego, OR 97035	6400 SE 101st AVE 201, Portland, OR 97266
(FO2)220 OF10 ifourt@moulfactor.com	(503)760-6330 JasonSamek@ElderDemolition.com



Permit NO.: BDEMO-22-00016 Permit IVR Number: 116050

Permit Type: Demolition

Expiration: 07/18/2023

Work Classification: Non-Residential

Permit Status: Issued

Issue Date: 01/19/2023

Description: Commercial - Blue Heron Mill, 3rd St. Complex - Demolition of steel frame building and adjacent overhead steel frame structure.

Water

The Contactor shall fill abandoned pipes 6-inches and larger with a controlled density fill (CDF), seal the open ends of all pipes, fittings, etc. that are to be abandoned with an end cap, coupling, or a concrete plug with a thickness equal to the diameter of the pipe. All abandoned piping to be severed as close to active piping as practical. All service lines are required to be severed at the main and for the corporation stops to be capped if not required to be removed. A 4" diameter by 4" long piece of PVC pipe is to be installed over all capped corporation stops that remain as part of abandonment. All other parts of the service lines and other appurtenances are to be cut off and removed at 24 inches minimum below finish grade. Structures (vaults, meter boxes, etc.) shall be removed completely to eliminate conflict with any future utility improvements. Abandonment of structures shall be completed only after piped systems have been properly abandoned. Abandoned valve boxes in pavement areas shall be cut off 24 inches below grade, removed, gravel filled, and plugged with compacted asphalt. Valve boxes outside of pavement areas shall be cut off 24 inches below grade, removed, and filled with native backfill. The Public Works Department has first claim to any removed or abandoned water materials (valves, hydrants, fittings, etc.). The contractor shall dispose of all unwanted materials in an approved manner.

Sewer

The Contactor shall seal the open ends of all pipes that are to be abandoned with an end cap, coupling, or a concrete plug with a thickness equal to the diameter of the pipe which is permanent & watertight. All abandoned piping to be severed as close to active piping as practical. All service lines are required to be abandoned at or near the sewer main. All other parts of the service lines and other appurtenances are to be cut off and removed at 24 inches minimum below finish grade. Structures (manholes, cleanouts, etc.) shall be removed completely to eliminate conflict with any future utility improvements. Abandonment of structures shall be completed only after piped systems have been properly abandoned. Abandoned cleanouts in pavement areas shall be cut off 24 inches below grade, removed, gravel filled, and plugged with compacted asphalt. Cleanouts outside of pavement areas shall be cut off 24 inches below grade, removed, and filled with native backfill. The Public Works Department has first claim to any removed or abandoned sanitary materials. The Contractor shall dispose of all unwanted materials in an approved manner.

Valuation:\$0.00Total Sq Feet:0.00

erm

Inspection Requests:

Inspection Line: 503-496-1551



Permit NO.: BDEMO-22-00016 Permit IVR Number: 116050

Permit Type: Demolition

Work Classification: Non-Residential

Permit Status: Issued

Issue Date: 01/19/2023

Expiration: 07/18/2023

Fees	Amount
Building Plan Review (tax)	\$698.16
Demolition Commercial (tax)	\$1,074.10
Site Plan Review PLNG	\$89.00
State Surcharge - Building (tax)	\$128.89
Total:	\$1,990.15

Payments	Amt Paid
Total Fees	\$1,990.15
Credit Card	\$1,291.99
Credit Card	\$698.16
Amount Due:	\$0.00

ern

Available Inspections:	
Inspection Type	IVR
Demolition Final	922

January 19, 2023

Date

Issued By: Kristi Brandt

Permit Holder

Date

January 19, 2023

Citizen Self Service Web Site: https://online.orcity.org/EnerGov_Prod/SelfService



Permit NO.: BDEMO-22-00017 Permit IVR Number: 116051

Permit Type: Demolition

Work Classification: Non-Residential

Expiration: 07/18/2023

Permit Status: Issued

Issue Date: 01/19/2023

Location Address

419 MAIN ST, OREGON CITY, OR 97045

Parcel Number 2-2E-31BD-00300

erm

Contacts

Ryan Webb Owner	Shannon Ham-Texeira Applicant
	9615 Grand Ronde rd., Grand ARonde, OR 97347
ryan.webb@grandronde.org	shannon.ham-texeira@grandronde.
	org
Jacob Faust Applicant	Elder Demolition Contractor
6 Centerpointe DR Ste 360, Lake Oswego, OR 97035	6400 SE 101st AVE 201, Portland, OR 97266
(503)320-0510 jfaust@maulfoster.com	(503)760-6330 JasonSamek@ElderDemolition.com

 Description: Commercial - Blue Heron Mill, Mill D Complex Val

 Demolition of steel frame buildings
 Tat

Valuation: \$0.00 Total Sq Feet: 0.00

Inspection Requests:

Inspection Line: 503-496-1551

Fees	Amount
Building Plan Review (tax)	\$810.95
Demolition Commercial (tax)	\$1,247.61
Site Plan Review PLNG	\$89.00
State Surcharge - Building (tax)	\$149.71
Total:	\$2,297.27

Payments	Amt Paid
Total Fees	\$2,297.27
Credit Card	\$1,486.32
Credit Card	\$810.95
Amount Due:	\$0.00

Available Inspections:	
Inspection Type	IVR
Demolition Final	922

January 19, 2023

Date

Issued By: Kristi Brandt

Permit Holder

Date



Permit NO.: BDEMO-22-00020 Permit IVR Number: 116513

Permit Type: Demolition

Work Classification: Non-Residential

Expiration: 07/18/2023

Permit Status: Issued

Issue Date: 01/19/2023

\$0.00

0.00

Location Address

419 MAIN ST, OREGON CITY, OR 97045

Parcel Number

ern

2-2E-31BD-00300

Contacts

Ryan Webb A	oplicant	Elder Demolition 6400 SE 101st AVE 201, F	Contractor ortland, OR 97266
ryan.webb@grandro	nde.org	(503)760-6330	JasonSamek@ElderDemolition.com
Jacob Faust A	rchitect		
6 Centerpointe DR Ste 360, Lake Oswego, OR 97035			
(503)320-0510 jfaust@maulfos	ter.com		

Valuation:

Total Sq Feet:

Description : Commercial - Blue Heron - Paper Machine
Complex - Demolition of concrete, steel, and wood
structure on the former Blue Heron Mill site. Aprox 46,410
sqft.

Payments	Amt Paid	Available Inspec
Total Fees	\$3,982.37	Inspection Type
Credit Card	\$3,982.37	Demolition Final
- Amount Due:	\$0.00	

Available Inspections:	
Inspection Type	IVR

922

Inspection Requests:

Inspection Line: 503-496-1551

Fees	Amount
Building Plan Review (tax)	\$1,429.77
Demolition Commercial (tax)	\$2,199.64
Site Plan Review PLNG	\$89.00
State Surcharge - Building (tax)	\$263.96
Total:	\$3,982.37

January 19, 2023

Date

Issued By: Kristi Brandt

Permit Holder

Date

Attachment 2

Photographic Log





Photo No. 1.

Description

2/28/2023

Aboveground storage tank at northeast corner of Mill D, looking east

Photographs

Project Name: Project Number: Location: Block 2 Demolition M0496.02.004 Oregon City, Oregon



Photo No. 2.

Description

2/28/2023

Demolition progress; wood structure of Mill D removed, looking northwest





Photo No. 3.

Description

3/15/2023

Removing overhead steel structure over Third Street Complex, looking west

Photographs

Project Name: Project Number: Location: Block 2 Demolition M0496.02.004 Oregon City, Oregon





Description

3/21/2023

Demolition progress; Butler Building removed, looking west





Photo No. 5.

Description

3/29/2023

Demolition progress, Mill D complex substantially removed, looking south

Photographs

Project Name: Project Number: Location: Block 2 Demolition M0496.02.004 Oregon City, Oregon



Photo No. 6.

Description

3/29/2023

3rd Street Complex overhead structure fully removed; North face of Mill O with steel attachments remaining, looking southwest





Photo No. 7.

Description

4/4/2023

Removing cladding and superstructure from Paper Machine Complex, looking southwest

Photographs

Project Name: Project Number: Location: Block 2 Demolition M0496.02.004 Oregon City, Oregon



Photo No. 8.

Description

4/27/2023

Paper Machine Complex superstructure removed, looking southwest





Photo No. 9.

Description

4/27/2023

Stained concrete in Paper Machine Complex footprint, looking southeast

Photographs

Project Name: Project Number: Location: Block 2 Demolition M0496.02.004 Oregon City, Oregon





Photo No. 10.

Description

4/27/2023

Dye on vertical wall and slab in southeast quadrant of Paper Machine Complex, looking southeast

R:\0496.02 Confederated Tribes of the Grand Ronde\Documents\004_2025.05.20 Block 2 Completion Summary\Att 2-Photo Log\Block 2 Photo Log.docx © 2025 Maul Foster & Alongi, Inc.



Photo No. 11.

Description

4/27/2023

Demolition progress east of Flour Mill boundaries; aboveground fiberglass storage tanks on second level, looking northeast

Photographs

Project Name: Project Number: Location: Block 2 Demolition M0496.02.004 Oregon City, Oregon



Photo No. 12.

Description

4/27/2023

Remnant of brick wall from former store secured for preservation, looking northwest





Photo No. 13.

Description

4/27/2023

Discolored water in stormwater lagoon; water was pumped to storage tanks and disposed offsite, looking southeast

Photographs

Project Name: Project Number: Location: Block 2 Demolition M0496.02.004 Oregon City, Oregon





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Photo No. 14.

Description

4/28/2023

Concrete basin on second level where dye release primarily originated from; mixed media in basins sampled for disposal, looking south



Photo No. 15.

Description

5/3/2023

Five 21,000 gallon temporary storage tanks mobilized to site; stormwater from lagoon pumped to tanks and disposed offsite, looking west

Photographs

Project Name: Project Number: Location: Block 2 Demolition M0496.02.004 Oregon City, Oregon





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Photo No. 16.

Description

6/14/2023

Site after stained concrete removal, looking southwest



Photo No. 17.

Description

6/22/2023

Site after concrete removal, demolition progress on remaining second level, looking south

Photographs

Project Name: Project Number: Location: Block 2 Demolition M0496.02.004 Oregon City, Oregon





Description

6/28/2023

Reducing final concrete debris size and final grading of site, looking north



Attachment 3

Asbestos Closeout Documentation





OREGON WASHINGTON 777 S.W. ARMCO AVENUE HILLSBORO, OREGON 97123 (503) 693-6388 FAX (503) 693-7221 ASBESTOS LEAD MOLD CCB#155646 ENVIRONMENTAL WA# IRSENI*972N5 SERVICES MWEB # 10447

Date: February 21, 2023

John Sullivan Elder Demolition 6400 101st Ave #201 Portland, OR 97266

Re: Blue Heron Mill Phase 2 – 300 Main St, Oregon City

Dear Mr. Sullivan

IRS Environmental completed removal and proper disposal of asbestos containing materials for demolition based on IRS bid proposal from the above referenced address in the following buildings:

Building Name or #	Date	ACM removed	Supervisors	Cert #
Building 9, 10 & 11	2023.01.23 – 01.27	Built up roofing & Floor tile/mastic	Isaias Cacatzum	S16222
Building 12 & 14	2023.02.07-02.14	Built up roofing/CAB Panels	Diego Sanchez	S16397



Enclosed please find the following closeout documents regarding the work at the above referenced location:

- ASN4 Manifests
- ASN1 DEQ notifications for Friable abatement (Tile/mastic)
- ASN6 DEQ notifications for Non-Friable abatement (CAB panels)

Should you have any questions or require any additional information, please feel free to call our office at 503-693-6388.

Regards,

Nancy Nguyen

Nancy Nguyen CEO, IRS Environmental of Portland, Inc

RECD BUR Exempt JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM JAN 31 REC'D



ASN 4

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086. Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR.

SUU IVIAIN St	Oregon City	Clackamas	97045
Street	City/State	County	Zip
Contact person: Jason Samek	Phor	ne: <u>503-515-8314</u>	
Contractor/Operator's name and address:	IRS Environmental of Portland, Inc.	Phone: 503-693-63	388
777 SW Armco Ave	Hillsboro / OR	Washington	97123
Street	City/State	County	Zip
Waste disposal site: Hillsboro Landfill -	Waste Management Phor	e: (503) 640-9427	
3205 SE Minter Bridge	Rd Hillsboro, OR	Washington Co	97123
Describe asbestos materials: Rui	City/State	County	Zip
Containers: Number:		BA-BMIL / DOC	o CI
Total quantity (cubic yards):	Dumps fr Ispe		EGIT
operator's certification: It above by proper shipping name and are c transport according to all government reg Shipment Record Form.	nereby declare that the contents of this co lassified, packaged, marked and labeled, gulations. All movement of this asbestos-	onsignment are fully and ac , and are in all respects in p containing material is reco	curately described roper condition for rded on this Waste
Agent: Bailes Caral	Company:	IRS Environmental of	of Portland, Inc
Address: 777 SW ARMCO AVE,	HILLSBORO, OR 97123 Phon	e:693-6388	
NSPORTER(S):			
Transporter #1: (Acknowledgment of rerelp Agent:	t of materials. Company:	IRS Environmental of Po	ortland
Address: 777 SW Armco Ave, Hillsbo	ro, OR 97 123 Phon	e. 503 693 6388	
Signature:	m	Date: 1-247	23
Transporter #2: (Acknowledgment of receip	t of materials)	Q - Q - Q - Q - Q - Q - Q - Q - Q	
Agent:	Company:		
Address:	Phon	e.	
Signature:		Date:	
USAL: (Certification of receipt of asbestos r	naterials covered by this manifest, except as	noted in item 11 below.)	
Waste Disposal Site: Hillsboro Landfill -	Waste Management		
Name and Title. HLI - Operator	12 ThRAMITON	Date:	JAN 2 4 202
	NALT VAL	(503) 640.04	127
Signature:	COTT FT	Phone: (000) 040-94	(EDD) CAR
Signature: DISCREPANCY SPACE: (Add attachme	nts as needed)	Phone: (000) 040-94	(503) 646-9427

FRIABLE JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM



ASN 4

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

300 Main St	Oregon City	Clackamas	97045
Street	City/State	County	Zip
Contact person: Jason Samek	P	hone: 503-515-8314	
Contractor/Operator's name and address	IRS Environmental of Portland, I	nc. Phone: 503-693-63	88
777 SW Armco Ave	Hillsboro / OR	Washington	97123
Street	City/State	County	Zip
Waste disposal site: Hillsboro Landfill -	Waste Management P	hone: (503) 640-9427	
3205 SE Minter Bridge	e Rd Hillsboro, OR	Washington Co	97123
Street	City/State	County	Zip
Describe asbestos materials:	11 up Roofin		
Containers: Number:	30-1 T	ype: BA-6MIL /00FC	
Total quantity (cubic yards): 30	1) sumpster		
OPERATOR'S CERTIFICATION: I above by proper shipping name and are	hereby declare that the contents of the	is consignment are fully and acc	curately descr

- - - - - - -

above by proper shipping name and are classified, packaged, marked and labeled, and are transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Agent:	Zoain)	Caca	from
Agent.	Done of	C-aca	

IRS Environmental of Portland, Inc Company:

777 SW ARMCO AVE, HILLSBORO, OR 97123

Phone: ______503-693-6388

Address:

TRANSPORTER(S):

8.	Agent: Le Mergue 2	Company: IRS Environmental of Portland
	Address: 777 SW Armco Ave, Hillsboro, OR 97123	Phone: 503 693 6388
	Signature: Same Mangues	Date: 1-24-23
9.	Transporter #2: (Acknowledgment of receipt of materials) Agent:	Company: Perer City Environmenta
	Address: 1 course ill landers, 7	Phone: 503 - 252 6144
	Signature:	Date: _/ - 25 - 23

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10.	Waste Disposal Site: Hillsboro Landfill	Waste Management	LIAN 2 5 2022
	Name and Title: HLI - Operator	L 26 Hamilte	Date:
	Signature:	Autor	Phone: (503) 640-9427 503) 640-9427

.

11. DISCREPANCY SPACE: (Add attachments as needed)

FRIABLE JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM



ASN 4

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

	300 Main St	Oregon City	Clackamas	97045
	Street	City/State	County	Zip
	Contact person: Jason Samek		Phone: 503-515-8314	
	Contractor/Operator's name and address: IRS I	Environmental of Portland,	Inc. Phone: 503-693-6	5388
	777 SW Armco Ave	Hillsboro / OR	Washington	97123
	Street	City/State	County	Zip
	Waste disposal site: Hillsboro Landfill - Wast	e Management	Phone: (503) 640-9427	
	3205 SE Minter Bridge Rd	Hillsboro, OR	Washington Co	97123
	Street	City/State	County	Zıp
	Describe asbestos materials: Batter	Koodin-)	1	
	Containers: Number: <u>304</u>	/	Type: BA-6-MIL 00	51
	Total quantity (cubic yards): ? o V.	1 ounghr		
	transport according to all government regulation	ons. All movement of this asbe	estos-containing material is rec	orded on this Waste
			IDO Environmente	l of Dortland Inc
	Agent: Isavas Calatum	Comj	Dany:IRS Environmenta	l of Portland, Inc
3 4	Agent: <u>Isava</u> <u>Catatum</u> Address: <u>777 SW ARMCO AVE, HILL</u>	Comj _SBORO, OR 97123	Phone:503-693-6388	l of Portland, Inc
RA	Agent: <u>Sava</u> <u>Catakum</u> Address: <u>777 SW ARMCO AVE, HILL</u> Address: <u>Transporter #1: (Acknowledgment of receipt of m</u> Agent: <u>777 SW Armco Ave</u> Hillsboro O	Comp _SBORO, OR 97123	Phone: 503-693-6388	l of Portland, Inc Portland
LA	Agent: <u>777 SW ARMCO AVE, HILL</u> Address: <u>777 SW ARMCO AVE, HILL</u> Address: <u>777 SW ARMCO AVE, HILL</u> Address: <u>777 SW Armco Ave, HIllsboro, O</u>	Comp SBORO, OR 97123	Phone: 503-693-6388 Phone: IRS Environmental of Phone: 503 693 6388	l of Portland, Inc Portland
LA	Agent: <u>777 SW ARMCO AVE, HILL</u> Address: <u>777 SW ARMCO AVE, HILL</u> NSPORTER(S): Transporter #1: (Acknowledgment of receipt of m Agent: <u>Managenet</u> Address: <u>777 SW Armco Ave, Hillsboro, O</u> Signature:	Comp SBORO, OR 97123	Dany: IRS Environmenta Phone: 503-693-6388 Dany: IRS Environmental of Phone: 503 693 6388 Date: 72.5	l of Portland, Inc Portland 2.5
LA	Agent:	Comp SBORO, OR 97123 DR 97123 DR 97123 Comp naterials)	pany: IRS Environmenta Phone: $503-693-6388$ pany: IRS Environmental of Phone: $503 693 6388$ Date: $1-2.5$ pany: $2-266747$	l of Portland, Inc Portland - 2-5
LA	Agent: <u>777 SW ARMCO AVE, HILL</u> Address: <u>777 SW ARMCO AVE, HILL</u> NSPORTER(S): Transporter #1: (Acknowledgment of receipt of m Agent: <u>Manual Address</u> : <u>777 SW Armco Ave, Hillsboro, O</u> Signature: <u>Transporter #2: (Acknowledgment of receipt of m</u> Agent: <u>Address</u> : <u>510 ACE 10944</u> Ave	Comp SBORO, OR 97123 (Comp DR 97123 (Comp Mariel Color 72.2.0)	Phone: $\frac{1 \text{RS Environmenta}}{503-693-6388}$ $\frac{1 \text{RS Environmental of}}{503 693 6388}$ $\frac{1 \text{RS Environmental of}}{2 \text{RS Environmental of}}$ $\frac{1 \text{RS Environmental of}}{2 \text{RS Environmental of}}$ $\frac{1 \text{RS Environmental of}}{2 \text{RS Environmental of}}$	Portland - 2.5 Environment 6144
LA	Agent:	Complexication Comple	pany: IRS Environmenta Phone: $503-693-6388$ pany: IRS Environmental of Phone: $503 693 6388$ Date: 72.5 pany: 2.52 Phone: $503 2.52$	Portland Portland - 2-5 Environment 6144 - 2-5
	Agent:	SBORO, OR 97123	IRS Environmenta pany: $503-693-6388$ Phone: 5036936388 pany: IRS Environmental of Phone: 5036936388 Date: $1-2.5$ pany: $2-52$ Date: $1-2.5$ pany: $2-52$ Date: $1-2.5$ pany: $2-52$ Date: $1-2.5$	l of Portland, Inc Portland - 2.3 Environment Lot 44 - 2.5
: A	Agent:	Comp SBORO, OR 97123 materials) OR 97123 materials) Comp Com	pany: IRS Environmenta Phone: $503-693-6388$ pany: IRS Environmental of Phone: $503 693 6388$ Date: 72.5 pany: 2.52 pany: 2.52 Date: $1-2.5$ pany: 2.52 pany: 2.52 pany: 2.52	Portland Portland - 2-5 Environment 6144 -2-5
S.	Agent:	SBORO, OR 97123 DR 97123 Daterials) Component I and CR 172.20 Date ials covered by this manifest, excented by the manifest of the second	IRS Environmenta pany: $503-693-6388$ Phone: 5036936388 pany: IRS Environmental of Phone: 5036936388 pany: 7252 pany: 7252 pate: $1-252$ pate: $1-252$ ept as noted in item 11 below.)	Portland - 2.5 Environment 6144 - 2.5
₽	Agent:	Complement Complement Complementation Complementation Complementation Complement Complem	IRS Environmenta pany: $503 - 693 - 6388$ pany: IRS Environmental of phone: $503 693 6388$ Date: $1 - 2 - 5$ pany: $2 - 5 - 2$ pany: $2 - 5 - 2$ pany: $2 - 5 - 2$ pate: $1 - 2 - 5 - 2$ ept as noted in item 11 below.) Date:	Portland - 2-5 Environmian 61 44 - 2 5
S.	Agent:	SBORO, OR 97123	IRS Environmenta pany: 503-693-6388 Phone: 503 693 6388 pany: IRS Environmental of Phone: 503 693 6388 Date: 72.5 pany: Quere C14.7 Phone: 2.5 2. Date: 1.72.5 ept as noted in item 11 below.) 2.5 2. Date: 1.72.5 Phone: 1.72.5 Phone: 1.72.5	Portland - 2.5 - 7.5 - 7.5

ASN 4 JAN 31 RECD BUR Exempt JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM



PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

Stre	et	Oregon City		Clackamas	97045
Contact person: Ja	son Samek	City/State		County	Zip
Contractor/Operato	r's name and address. IBS FI	nvironmontal of Dartiers	_ Phone: 5	03-515-8314	
77	7 SW Armon Ave		i, Inc.	_ Phone: _503-693-63	388
Stre	et	Hillsboro / OR		Washington	97123
Waste disposal site:	Hillsboro Landfill - Waste	Management	Phone (503) 640-9427	Zip
320	05 SE Minter Bridge Rd	Hillsboro, OR	Thone. E	Washington Co	07100
Stree Decerribe and set		City/State		County	 Zip
Describe aspestos n	aterials: BOILTS	P Rooking			
Containers:	Number: <u>36 y</u>)	Type: BA	-6-MIL LOOSO	o CH
Total quantity (cubic	yards): Joyd Dum	pstr			
Shipment Record Fo	orm.	. An movement of this asb	estos-cont	aining material is recor	ded on this Was
Agent:av	analym	Com	pany:	S Environmental o	of Portland, In
Address:	ARMCO AVE, HILLS	BORO, OR 97123	Phone: _5	03-693-6388	
NSPORTER(S):					
Transporter #1: (Ack Agent:	nowledgement of receipt of major	ialy Comp	any: IRS	Environmental of Po	ortland
Address: 777 SW A	Armco Ave, Hillsboro, OR	1 23	Phone: 50	3 693 6388	
Signature:	7 Hann		_	Date: 1-2422	23
Transporter #2: (Ack	nowledgment of receipt of mater.	ials)		- 0-1-CZ	·)
Agent:		Comp	any:		
Address:		i	Phone:		
Signature:				Date:	
OSAL: (Certification	of receipt of opherter and the				
Waste Disposal Site:	Hillsboro Landfill - Waste	overed by this manifest, except	pt as noted	in item 11 below.)	
Name and Titles HLI	- Operator	h / h / h / h	1		1997 AV
Signature:	- Contrainer	HAMMATOR	<u> </u>	Date:	JAN242
	-1(0006	- A	-	Phone: (503) 640-942	27
DISCREPANCY SP	ACE: (Add attachments as need	ded)			(000) 046-94

FRIABLEJOB # 22122ASBESTOS WASTE SHIPMENT REPORT FORM



ASN 4

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

•	Asbestos removal site name and address: DI	ue Heron Mill - Phase2	Claskamaa	07045
	Street		Clackamas	7in
	Contact person: Jason Samek	Phor	e: 503-515-8314	412
	Contractor/Operator's name and address: IRS	S Environmental of Portland, Inc.	Phone: 503-693-6	388
	777 SW Armco Ave	Hillsboro / OR	Washington	97123
	Street	City/State	County	Zip
	Waste disposal site: Hillsboro Landfill - Wa	ste Management Phor	e: (503) 640-9427	
	3205 SE Minter Bridge Ro	Hillsboro, OR	Washington Co	97123
	Street	City/State	County	Zip
	Describe asbestos materials:	p Koodin-)	DA 0141 1	
	Containers: Number: <u>30</u>	У Д Туре	BA-OMIL 1005	
	Total quantity (cubic yards): ? o y	1) ounstr		
	above by proper shipping name and are class transport according to all government regular Shipment Record Form.	sified, packaged, marked and labeled tions. All movement of this asbestos	, and are in all respects in -containing material is reco	proper condition for orded on this Waste
	Agent: Isava, Caratum	Company	IRS Environmental	of Portland, Inc
	777 SW ARMCO AVE HI			
	Address:	Phone	103-693-6388 ne:	
R	Address:	Phor	103-093-0300 1e:	
R/	Address:	materials)	IDS Environmental of	Portland
R	Address:	materials)	IRS Environmental of	Portland
R.⁄	Address:ANSPORTER(S): Transporter #1: (Acknowledgment of receipt of Agent:Address: 777 SW Armco Ave, Hillsboro,	Phore	IRS Environmental of he: 503 693 6388	Portland
R	Address:ANSPORTER(S): Transporter #1: (Acknowledgment of receipt of Agent:Address: 777 SW Armco Ave, Hillsboro, Signature:	Phore	IRS Environmental of he: 503 693 6388 Date:	Portland
R	Address:	Phore	IRS Environmental of ne: 503 693 6388 Date: 72 \$	Portland
R/	Address:	Phone Phone Phone Company OR 97123 Phone Phone Phone Company Company Company Company Phone Phone Company Phone Phone Company Phone Phone <t< td=""><td>$\frac{1 \text{RS Environmental of}}{\text{Date:} \ 2.52}$</td><td>Portland</td></t<>	$\frac{1 \text{RS Environmental of}}{\text{Date:} \ 2.52}$	Portland
R	Address:	Phore	$\frac{1RS \text{ Environmental of}}{Date: 2.52}$ $\frac{1RS \text{ Environmental of}}{Date: 2.52}$	Portland - 2-5 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
R	Address:	Phore	$\frac{1 \text{RS Environmental of}}{\text{Date:} = \frac{503 693 6388}{2 - 2 - 2 - 2}$ $\frac{1 \text{RS Environmental of}}{\text{Date:} = \frac{503 693 6388}{2 - 2 - 2 - 2}$	Portland - 7-5 - 2-5 - 2-5 - 2-5
R	Address:	Phore	$\frac{1RS Environmental of}{Date:$	Portland - 2-5 - Averanda GUUH 2-5
R/ IS	Address:	Phore	$\frac{1RS Environmental of}{Date:$	Portland - 2-5 - 2-5 - 2-5
R2 IS	Address:	Phore	ae:	Portland - 7-5 7-5 7-5 7-5 7-5 7-5 7-5 7-5 7-5 7-5 7-5 7-5 7-5 - 7-5 - 7 - 7 - 7 - 7 - 7-5 - 7 - 7-5 - 7 - 7-5 - 7 - 7-5 - 7 - 7-5 - 7- 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7
R 2 015	Address:	Phore	ac: 503-693-6388 ac: 503 693 6388	Portland - 2-5 - 2-5
• R 2 • • • • • • • • • • • • • • • • • • •	Address:	Phore	IRS Environmental of ne: 503 693 6388 Date: 72 \$ ne: 22 \$ Date: 72 \$ ne: 22 \$ Date: 72 \$ ne: 22 \$ Date: 72 \$	Portland - 2-5

BUR Exempt JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM



ASN 4

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

300 Main St		Oregon City	Clackamas	97045
Street		City/State	County	Zip
Contact person: Jason S	amek	Phor	ie: <u>503-515-8314</u>	
Contractor/Operator's nar	me and address: IRS Er	vironmental of Portland, Inc.	Phone: <u>503-693-63</u>	388
777 SW	Armco Ave	Hillsboro / OR	Washington	97123
Street		City/State	County	Zip
Waste disposal site: Was	co County Landfill	Phor	ne: (541) 296-4082	
2550 Ste	eele Rd	The Dalles/OR	Wasco County	97058
Street	. ault.		County	Стр
Describe asbestos materia	als: <u>SONTO</u>	¥ 1200 fing		
Containers:	Number: 30γ	Туре	BA-6-MIL [005	<u>e</u>
Total quantity (cubic yards	s): 30 yd	Dumpster		
transport according to all Shipment Record Form.	government regulations	s. All movement of this asbestos	-containing material is reco	rded on this Waste
Agent: Isaion	Calation	Company		
Address:	RMCO AVE, HILLS	BORO, OR 97123 Pho	ne:693-6388	
NOR OF MERICA				
NSPORTER(S): Transporter #1: (Acknowl Agent:/	ledgment of receipt of mate	erials) Company	River City i	Environm
ANSPORTER(S): Transporter #1: (Acknowl Agent: <u>Levro</u> Address: 54/0 NE	ledgment of receipt of mate M <u>arguez</u> 109 Hz AVE POI	crials) Company Hand Oregon 97250 Phot	: River City i	Environm 144
NSPORTER(S): Transporter #1: (Acknowl Agent: $_$ $_$ $_$ $_$ $_$ $_$ $_$ $_$ $_$ $_$	ledgment of receipt of mate M <u>arguez</u> 109 HLAVE POI 109 Mondeue	company <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>Company</u> <u>C</u>	: <u>Ziver City</u> ne: <u>503 2526</u> Date: 1-27-2	Environm 144 23
ANSPORTER(S): Transporter #1: (Acknowl Agent: <u>Levro</u> Address: <u>54/0 NE</u> Signature: <u>Acknowl</u> Transporter #2: (Acknowl Agent:	ledgment of receipt of mate Marguez 109 H. AVE POJ Marguez Hedgment of receipt of mate	erials) <u> Company</u> <u> HQNJOregon 97270</u> Phor <u> Phor</u> erials) Company	: <u>Ziver City</u> ne: <u>503 2526</u> Date: <u>1-27-</u>	En Jironm 144 23
Ansporter #1: (Acknowl Agent: <u>Levro</u> Address: <u>54/0</u> NE Signature: <u>Acknowl</u> Transporter #2: (Acknowl Agent: <u></u>	ledgment of receipt of mate Marquez 109 Ha AVE POI 109 Marque Hedgment of receipt of mate	erials) Company Company Phore Phore Company Phore P	: <u>Ziver</u> City ne: <u>503</u> Z526 Date: <u>1-27-</u>	Environm 144 23
ANSPORTER(S): Transporter #1: (Acknowl Agent: Address: 54/0 NE Signature: Transporter #2: (Acknowl Agent: Address: Signature:	ledgment of receipt of mate Marquez 109 Hi Ave Por magnet ledgment of receipt of mate	erials) <u> Company</u> <u> HQnJOrgon97270</u> Phore erials) <u> Company</u> Phore	: <u>Ziver City</u> ne: <u>503</u> <u>Z526</u> Date: <u>I-27-</u> :	Environm 144 23
ANSPORTER(S): Transporter #1: (Acknowl Agent:	ledgment of receipt of mate Marquez 109 Ha AVE POI 109 Marque ledgment of receipt of mate	erials) Company Aland Oregon 97 ²²⁵⁰ Phore erials) Company Phore	: <u>Ziver</u> City he: <u>503</u> 2526 Date: <u>1-27-2</u> he: Date:	Environm 144 23
ANSPORTER(S): Transporter #1: (Acknowl Agent: Signature: Transporter #2: (Acknowl Agent: Address: Signature: POSAL: (Certification of re	ledgment of receipt of mate Marquez 109 Hh AVE PO Marque ledgment of receipt of mate eccipt of asbestos materials	erials) <u>Hand Oregon 97226</u> Phore Phore Company Phore S covered by this manifest, except as	$\frac{ Z_{i} v e_{F} C_{i} + y ^{2}}{ Date 503 2526}$ $Date: 1 - 27 - 3$ $= Date: Date: S noted in item 11 below.)$	En Jio Unm 144 23
ANSPORTER(S): Transporter #1: (Acknowl Agent:	ledgment of receipt of mate Marquez 104 Ha AVE POI mo Morgue ledgment of receipt of mate eccipt of asbestos materials asco County Landfill	erials) Company Company Phone Company Phone S covered by this manifest, except as	$\frac{ 2 ver (2+4)}{ 2 ver (2+4)}$ $ 5 3 (2+5) 2 2 (2+5) 2 2 2 2 2 2 2 2 2 2 2 2 2 $	Environm 144 23
ANSPORTER(S): Transporter #1: (Acknowl Agent:/ Address: <u>S4/0</u> NE Signature: Transporter #2: (Acknowl Agent: Address: Signature: POSAL: (Certification of re Waste Disposal Site: <u>Wa</u> Name and Title:	ledgment of receipt of mate Marquez 109 Ha AVE POI mo Mongue ledgment of receipt of mate ecceipt of asbestos materials asco County Landfill	erials) Company Hand Oregon 97226 Phore Phore Phore Secovered by this manifest, except as	$\frac{2 \cdot ver}{252} \frac{2526}{2526}$ $\frac{2526}{2526}$ $\frac{1-27-2}{25}$ $\frac{1-27-2}{25}$ $\frac{1-27-2}{25}$ $\frac{1-27-2}{25}$ $\frac{1-27-2}{25}$ $\frac{1-27-2}{25}$	Environm 144 23
Address: <u>S4/0 NE</u> , Signature: <u>Cantor</u> Address: <u>S4/0 NE</u> , Signature: <u>Cantor</u> Transporter #2: (Acknowl Agent: <u>Signature</u> Signature: <u>Signature</u> Waste Disposal Site: <u>Wa</u> Name and Title:	ledgment of receipt of mate Marquez 104 Ha AVE POI mo Morgue ledgment of receipt of mate eccipt of asbestos materials asco County Landfill 2 R R March	erials) Company Aland Oregon 97 ²² Phone Phone Company Phone Phone s covered by this manifest, except an	$\frac{ 2 ver (2+4)}{ 2 }$ he: <u>503</u> 2526 Date: <u>1-27-2</u> Date: <u>1-27-2</u> he: <u></u> Date: <u>1-27-2</u> Date: <u>1-27-2</u> Phone: (541) 296-4	Environm 144 23 -2023 1082
Address: <u>S4/0</u> NE Address: <u>S4/0</u> NE Signature: <u>Carrow</u> Address: <u>S4/0</u> NE Transporter #2: (Acknowl Agent: <u>Signature</u> Signature: <u>Signature</u> Name and Title: <u>Signature</u>	ledgment of receipt of mate Marquez 104 H. AVE POI 104 H. A	erials) Company HQnJOrgon 97250 Phot Prials) Company Phot s covered by this manifest, except as	$\frac{2 \cdot ver}{Dater} \frac{2 \cdot 4}{C \cdot 4}$ $\frac{2 \cdot ver}{Date} \frac{2 \cdot 4}{C \cdot 4}$ $\frac{2 \cdot 4}{Date}$ $\frac{1 - 2 \cdot 7 - 2}{C \cdot 4}$ $\frac{1 - 2 \cdot 7 - 2}{C \cdot 4}$ $\frac{1 - 2 \cdot 7 - 2}{C \cdot 4}$ $\frac{1 - 2 \cdot 7 - 2}{C \cdot 4}$ $\frac{1 - 2 \cdot 7 - 2}{C \cdot 4}$ $\frac{1 - 2 \cdot 7 - 2}{C \cdot 4}$ $\frac{1 - 2 \cdot 7 - 2}{C \cdot 4}$ $\frac{1 - 2 \cdot 7 - 2}{C \cdot 4}$	Environm 144 23 -2023 1082

BUR Exempt JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM



ASN 4

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

300 Main St	Oregon City	Clackamas	97045
Street	City/State	County	Zip
Contact person: Jason Samek	Phone	e: <u>503-515-8314</u>	
Contractor/Operator's name and addre	ss: IRS Environmental of Portland, Inc.	Phone: _503-693-63	388
777 SW Armco Ave	Hillsboro / OR	Washington	97123
Street	City/State	County	Zip
Waste disposal site: Wasco County L	andfill Phone	e: (541) 296-4082	
2550 Steele Rd	The Dalles/OR	Wasco County	97058
Street Oc.		County	Zib
Describe asbestos materials: \underline{KU}_{1}	IF US KOOFING		-
Containers: Number:	<u>30 7 d</u> Type:	BA-OTVIL (0050	¢
Total quantity (cubic yards):	X & DUMPS ter		
transport according to all government Shipment Record Form.	regulations. All movement of this asbestos-	containing material is reco	rded on this Waste
Agent: Isaios Cala	tzum Company:	IRS Environmental	of Portland, Inc
Address:	E, HILLSBORO, OR 97123 Phone	e: 503-693-6388	······································
ANSPORTER(S): Transporter #1: (Acknowledgment of rec Agent: Louro Marque	company:	RWER CITY E	Environ men
Address: <u>5410 NE 104+h</u>	Ave Portland Oregon Phone	e: <u>503 2526</u>	144
Signature: Kange	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Date:	- 3
Transporter #2: (Acknowledgment of rec	eipt of materials)		
Agent:	Company:		
Address:	Phone	e:	
		Date:	
Signature:			
Signature:	os materials covered by this manifest, except as	noted in item 11 below.)	
Signature: POSAL: (Certification of receipt of asbest Waste Disposal Site: Wasco County	os materials covered by this manifest, except as	noted in item 11 below.)	
Signature: POSAL: (Certification of receipt of asbest Waste Disposal Site: Wasco County Name and Title:	os materials covered by this manifest, except as Landfill INTY LANDFILL	noted in item 11 below.)	23
Signature: POSAL: (Certification of receipt of asbest Waste Disposal Site: Wasco County Name and Title:	os materials covered by this manifest, except as Landfill JNTY LANDFILL	noted in item 11 below.) Date: 02/01/	23
Signature: POSAL: (Certification of receipt of asbest Waste Disposal Site: Wasco County Name and Title: Signature: <u>Linda Miller</u>	os materials covered by this manifest, except as Landfill JNTY LANDFILL	noted in item 11 below.) Date: <u>02/01/</u> Phone: <u>(541) 296-4</u>	23
Signature: POSAL: (Certification of receipt of asbest Waste Disposal Site: Wasco County Name and Title: Signature: DISCREPANCY SPACE: (Add attack	os materials covered by this manifest, except as Landfill JNTY LANDFILL	noted in item 11 below.) Date: <u>02/01/</u> Phone: <u>(541) 296-4</u>	23



non-friable JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM

DEQ

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

<u>300 Main</u>	St	Oregon City	Clackamas	97045
	Street	City/State	County	Zip
Contact person	: Jason Samek	Phor	ae: <u>503-515-8314</u>	
Contractor/Ope	rator's name and address: IRS	Environmental of Portland, Inc.	Phone:503-693-63	388
	777 SW Armco Ave	Hillsboro / OR	Washington	97123
	Street	City/State	County	Zip
Waste disposal	site: Wasco County Landfill	Phor	ne: (541) 296-4082	
	2550 Steele Rd	The Dalles/OR	Wasco County	97058
Describe asbest	Street tos materials: \underline{CAB}	PAnel	County	Zip
Containers:	Number: <u>20</u>	Wraps Type	BA - 6 MIL	
Total quantity (autionarda): 30 Varia	1-		
A gent:	han Sur	Company	IRS Environmental	of Portland, Inc
A gent:	les dur-	Company		
Agent. <u>777</u>	SW ARMCO AVE HIL	I SBORO OR 97123	503-693-6388	
Address:	SW ARMCO AVE, HIL	LSBORO, OR 97123 Phore	ne:693-6388	
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FRIABLEJOB # 22122ASBESTOS WASTE SHIPMENT REPORT FORM



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ASN 4

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

300 Main St	Oregon City	Clackamas	97045
Street	City/State	County	Zip
Contact person: Jason Samek	Phor	e 503-515-8314	
Contractor/Operator's name and address. IRS E	nvironmental of Portland, Inc.	Phone: 503-693-	6388
TTT SW AITILU AVE	Hillsbord / OR	Washington	07123
Street	City/State	County	Zip
Waste disposal site: Hillsboro Landfill - Waste	Management Phor	e: (503) 640-9427	
3205 SE Minter Bridge Rd	Hillsboro, OR	Washington Co	97123
Street Describe asbestos materials:	City/State	County	Zip
Containers: Number: 38	Lass Type	BA - 6 MIL	
	<u> </u>		
		503-693-6388	}
Address:	Phor	503-693-6388 .e:	3
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non-friable JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM



PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

300 M	ain St		Oregon Ci	ty	Clackamas	97045
	Street		City/State		County	Zip
Contact p	erson: Jason S	amek		Phone	: 503-515-8314	
Contracto	r/Operator's na	me and address: IRS	Environmental of P	ortland, Inc.	Phone: <u>503-693-6</u>	388
	777 SW	Armco Ave	Hillsbor	o / OR	Washington	97123
	Street		City/State		County	Zip
Waste dis	posal site: Was	co County Landfill		Phone	: (541) 296-4082	
	2550 St	eele Rd	The Da	lles/OR	Wasco County	97058
-	Street		City/State		County	Zip
Describe	asbestos materia	als: <u>CAO</u>	<u>Panels</u>			
Container	s:	Number: <u>16</u>	wraps.	Type:	BA - 6 MIL	······
Total qua	ntity (cubic vard	s: RO Van	le			
		Ë				of Double and the
Agent:	<u>Sieqo</u>	Sanche	٤	Company:	IRS Environmental	of Portland, Inc
Agent: \int	Diego 777 SW AF	Sanche RMCO AVE, HIL	<u>ک</u> LSBORO, OR 97	Company: 2123 Phone	IRS Environmental	of Portland, Ind
Agent:]	Viego 777 SW AF	Sanche RMCO AVE, HIL	<u>ک</u> LSBORO, OR 97	Company: 2123Phone	IRS Environmental	of Portland, Ind
Agent: Address: ANSPORT	777 SW AF	Sanche RMCO AVE, HIL	ک LSBORO, OR 97 materials)	Company: /123 Phone	IRS Environmental	of Portland, Ind
Agent: Address: ANSPORT Transport Agent:	$\frac{1}{2} \frac{1}{2} \frac{1}$	Sanche RMCO AVE, HIL ledgment of receipt of 12 rg Vez	کے LSBORO, OR 97 materials)	Company: 2123 Phone	IRS Environmental	of Portland, Ind
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Agent: Address: Address: Transport Agent: Address: Signature	TTT SW AF TTT SW AF TER(S): $er #1: (Acknowl 2v_{TO} A54/O$ NE 34/O NE 34/O NE	Sanche RMCO AVE, HIL ledgment of receipt of <u>Drgvez</u> 109 fh Ave I Marquez	2 LSBORO, OR 97 materials) brfland Oreya	Company: 2 123 Phone Company: 2 <u>97220</u> Phone	IRS Environmental 503-693-6388 2000 Cuty E 503 252 61 Date: 2-15-	of Portland, Ind mirron Men 4 4 2 3
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BUR Exempt JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM



ASN 4

WASTE GENE	RATOR:	(Contractor,	Facility, or	Operator)
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	300 Main St	Oregon City	Clackamas	97045
	Street	City/State	County	Zip
	Contact person: Jason Samek		none: 503-515-8314	•
	Contractor/Operator's name and address: IRS E	Environmental of Portland, Ir	nc. Phone: <u>503-693-6</u>	388
•	777 SW Armco Ave Street	Hillsboro / OR City: State	Washington County	97123 Zip
	Waste disposal site: Wasco County Landfill	Pl	none: (541) 296-4082	
	2550 Steele Rd	The Dalles/OR	Wasco County	97058
	Street	City/State	County	Zip
	Describe asbestos materials: DUK	Kobting		
	Containers: Number: <u>i</u>	<u>-0656</u> T	ype: BA - 6 MIL	
	Total quantity (cubic yards): 30 Yaxd			
	transport according to all government regulationshipment Record Form.	ns. All movement of this asbes	os-containing material is reco	orded on this Was
	Agent: Dicyo Sanchez	Compa	ny: IRS Environmental	of Portland, Ir
	Agent: Dicyo Sanchez Address: 777 SW ARMCO AVE, HILL	Compa SBORO, OR 97123P	ny: IRS Environmental	of Portland, In
2	Agent: Dicyo Sanchez Address: 777 SW ARMCO AVE, HILL	CompaCompaCOmpaP	ny: IRS Environmental 503-693-6388	of Portland, Ir
Ľ	Agent: Diego Sanchez 777 SW ARMCO AVE, HILL Address:	CompaCompaCompaP	ny: IRS Environmental none: 503-693-6388 ny: River City Eu	of Portland, Ir
Ŀ	Agent: Diego Sanchez Address: 777 SW ARMCO AVE, HILL Address: Transporter #1: (Acknowledgment of receipt of me Agent: Louro Morquez Address: 5440 NE 109th Ave Portl	Compa SBORO, OR 97123 P aterials) Compa and Oregon 97226 P	ny: IRS Environmental none: 503-693-6388 ny: River City En none: 503 252 614	of Portland, Ir
Ľ	Agent: Dicgo Sanchez Address: 777 SW ARMCO AVE, HILL Address: Transporter #1: (Acknowledgment of receipt of ma Agent: Louro Morquez Address: 5410 NE 109th Ave Porth Signature: Account Manguez	Compa SBORO, OR 97123 P aterials) Compa and Oregon 97226 p	ny: IRS Environmental 503-693-6388 ny: <u>River City</u> Env none: <u>503 252 614</u> Date: <u>2-16-2</u>	of Portland, Ir uvermente 5
L /	Agent: DiCGO Sanchez 777 SW ARMCO AVE, HILL Address: 777 SW ARMC	Compa SBORO, OR 97123 Pi aterials) Compa Compa Compa Compa	IRS Environmental ny:	of Portland, Ir uvermente 14
2.4	Agent: Dicgo Sanchez Address: 777 SW ARMCO AVE, HILL Address: 777 SW ARMCO AVE, HILL Address: Contemporation of receipt of ma Agent: Contemporation of receipt of ma Address: SHIUNE LOGIL AVE Porth Signature: Contemporation of receipt of ma Agent: Contemporation of receipt of ma	Compa SBORO, OR 97123 Pl aterials) Compa Compa aterials) Compa Compa	ny:	of Portland, Ir weaker
e ./	Agent: Diego Sanchez 777 SW ARMCO AVE, HILL Address:	Compa SBORO, OR 97123 P aterials) Compa aterials) Compa Compa Compa	IRS Environmental ny: 503-693-6388 none: 503-693-6388 ny: Ever City Ever none: 503 252 614 Date: 2-16-2 ny:	of Portland, Ir wermente ty 3
` R ∕	Agent: Dicgo Sanchez Address: 777 SW ARMCO AVE, HILL Address: 777 SW ARMCO AVE, HILL Address: Contemporation of receipt of ma Agent: Address: SHIUNE LOGTH AVE Porth Signature: Address: Manguez Transporter #2: (Acknowledgment of receipt of ma Agent:	Compa SBORO, OR 97123 Pi aterials) Compa Compa Compa aterials) Compa	ny:	of Portla
RA	Agent: Dicgo Sanchez 777 SW ARMCO AVE, HILL Address:	Compa SBORO, OR 97123 Pl aterials) Compa Compa (Compa (Compa (Compa (Compa (Compa)) (Compa (Compa))	IRS Environmental ny: 503-693-6388 ny: Ever City Europanne ny: Date: 2-16-2 ny: Date: Date: Date: Date: Date:	of Portland, 1
₹.∕	Agent: Dicgo Sanchez Address: 777 SW ARMCO AVE, HILL Address:	Compa SBORO, OR 97123 P aterials) Compa Compa Compa Compa Compa Compa Compa Aterials) Compa Aterials) Compa Aterials) Compa Aterials) Compa Aterials) Compa	ny: $IRS Environmental none: 503-693-6388ny: River Citt Environmental ny: River Citt Environmental none: 503 - 252 - 61^{-1}Date: 2 - 16 - 2ny:t as noted in item 11 below.)$	of Portland, Ir
S.	Agent: Dicgo Sanchez Address: 777 SW ARMCO AVE, HILL Address:	Compa SBORO, OR 97123 Pi aterials) Compa Compa Compa aterials) Compa aterials) Compa aterials)	IRS Environmental ny: $503-693-6388$ none: $503-693-6388$ ny: $Cite Cite Cite Cite Cite Cite Cite Cite $	of Portland, Ir
U∕ S	Agent: Dicgo: Sanchez Address: 777 SW ARMCO AVE, HILL Address: Marquez Address: 5410 NE 109 th Ave Porth Signature: Marquez Address: Marquez Address: Marquez Signature: Address: Signature: Signature: POSAL: (Certification of receipt of asbestos materia Waste Disposal Site: Wasco County Landfill Name and Title: Mark Multa	Compa SBORO, OR 97123 P aterials) Compa Compa Compa Compa Compa Compa Compa P aterials) Compa P aterials) Compa P	IRS Environmental ny: $1RS$ Environmental none: $503-693-6388$ ny: $2iee Ciff Environmental ny: 2ie Ciff Environmental Date: 2-16-2ny:Date: 2-16-2ny:Date: 22/16/2$	of Portland, Ir
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V S	Agent: Dicgo Sanchez Address: 777 SW ARMCO AVE, HILL Address:	Compa SBORO, OR 97123 P aterials) Compa Co	IRS Environmental ny: $503-693-6388$ none: $503-693-6388$ ny: $Eixer Cittler none: 503-252-61^{\circ} Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 ny: Date: 2-16-2 Date: 2-16-2 Date: 2-16-2 ny: Date: 2-16-2 Date: 2-16-2 Date: 2-16-2 Da$	of Portland, Ir

Non-FRIABLE JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM



ASN 4

	300 Main St	Oregon City	Clackamas	97045
	Street	City/State	County	Zip
	Contact person: Jason Samek	Pho	one: 503-515-8314	
	Contractor Operator's name and address:	IRS Environmental of Portland, Inc	2. Phone: 503-69	3-0388
	777 SW Armco Ave	Hillsboro / OR	Washington	97123
	Street	City State	County	Zip
	Waste disposal site: Hillsboro Landfill - V	Waste Management Pho	one: (503) 640-9427	
	3205 SE Minter Bridge	Rd Hillsboro, OR	Washington Co	97123
	Describe asbestos materials:	te siding	County	Zip
	Containers: Number: 2	6 BAGI Tyr	be: BA - 6 MIL	
	Total quantity (cubic yards): 2%			
	Agent: 1/11712 (MIT)	Company	y:	
	Agent: <u>VATTE</u> Smith Address: 777 SW ARMCO AVE, H	LILLSBORO, OR 97123 Pho	y:503-693-638 one:	8
Ni Ti A	Agent: 777 SW ARMCO AVE, H Address: 777 SW ARMCO AVE, H SPORTER(S): Transporter #1: (Acknowledgment of receipt Agent: Whitney Sn	IILLSBORO, OR 97123 Pho of materials) nith Compar	y:503 - 693 - 638 me: ny: _IRS Environmenta	8
Ni Ti A	Agent: 777 SW ARMCO AVE, H Address: 777 SW ARMCO AVE, H SPORTER(S): ransporter #1: (Acknowledgment of receipt Agent: Whitney Sn Address: 777 SW Armco Ave, Hillsbord	Company HLLSBORO, OR 97123 Pho of materials) nith Compar p, OR 97123 Ph	y:503 - 693 - 638 me: ny: _IRS Environmenta none: 503-693-6388	8
Ni Ti A S:	Agent: 777 SW ARMCO AVE, H Address: 777 SW ARMCO AVE, H SPORTER(S): Transporter #1: (Acknowledgment of receipt Agent: Whitney Sn Address: 777 SW Armco Ave, Hillsbord	Company HILLSBORO, OR 97123 Pho of materials) nith Compar p, OR 97123 Ph	y:503 - 693 - 638 me:503 - 693 - 638 ny: _IRS Environmenta none:503-693-6388 Date:	8 I of Portland MAR 1 4 202
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NTA A S: TA A Si O W	Agent:	Company ILLSBORO, OR 97123 pho of materials) nith Compar b, OR 97123 Ph of materials) Compar Hillsboro, OR 97123 Ph aterials covered by this manifest, except Waste Management	y: 503 - 693 - 638 hy: IRS Environmentatione: fone: Date: hy: Hillsboro Garbage fone: (503) 648-4219 Date: as noted in item 11 below.	8 I of Portland MAR 1 4 202 MAR 1 4 202
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BUR Exempt JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM



ASN 4

WA 1.	STE GENERATOR: (Contractor, Facility, or Operate Asbestos removal site name and address; BILL	nr) e Heron Mill Dhaac2	MAR 06 RE	C'D
	300 Main St	Oregon City	Clockamoo	07045
	Street	City/State	County	 Zin
	Contact person: Jason Samek	Pho	ne: 503-515-8314	мр
2.	Contractor/Operator's name and address: IRS E	Invironmental of Portland, Inc	Phone: 503-693-63	388
	777 SW Armco Ave	Hillsboro / OR	Washington	97123
	Street	City/State	County	Zip
5.	Waste disposal site: Wasco County Landfill	Pho	ne: (541) 296-4082	
	2550 Steele Rd	The Dalles/OR	Wasco County	97058
,	Describe school ()	City/State	County	Zip
•.	Describe aspestos materials: Konkin.	WILLIK DIA	Stationat	
	Containers: Number: 2 + o Total quantity (cubic yards): ///	<u></u>	e: BA - 6 MIL	
-	above by proper shipping name and are classified transport according to all government regulation Shipment Record Form.	ed, packaged, marked and labeled is. All movement of this asbestos	and are in all respects in proceedings of the second secon	curately described oper condition for ded on this Wast
	Agent: Baros Carotam	Company:	IRS Environmental o	f Portland, Ind
	Address:	BORO, OR 97123 Phon	e: _503-693-6388	
AIN Ti A	ransporter #1: (Acknowledgment of receipt of mate gent:	erials)	. IRS Environmental of I	Portland
A	ddress: 777 SW Armco Ave, Hillsboro, OR	97123 Pho	503-693-6388	ordano
Si	ignature: Way Min	N 4 1 HO	MA	R 1-2023
Tr	ransporter #2: (Acknowledgment of receipt of		Date:	
A	gent:	It Reand	Hillshoro Garbago	
A	ddress: 4945 SW Minter Bridge Rd, Hillsbo	6 ORATUR	(E02) 040 4040	
Si	gnature:	att Kearle	e: (503) 648-4219	
			Date: M-	<u>AR 1202</u>
POS	SAL: (Certification of receipt of asbertos materials	covered by this man if a		
Wa	aste Disposal Site Hillsboro Landfill - Waste	Management	noted in item 11 below.)	
Na	me and Title: HLI - Operator		_	17
Sig	anature A A		Date:	
Dr	- toget com		Phone: (503) 640-94	427
DI	SCREPANCY SPACE: (Add attachments as new	eded)		
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ASN 4

Non-FRIABLE JOB # 22122 ASBESTOS WASTE SHIPMENT REPORT FORM



	300 Main St	(Dregon City	Clack	amas	07045
	Street		City/State	County		Zip
0	Contact person: Jason Samek		P	hone: 503-515-8	3314	
¢	ontractor Operator's name and a	ddress: IRS Enviri	onmental of Portland, I	nc. Phone:	503-093-0	388
1	777 SW Armco	Ave	Hillsboro / OR	Washin	gton	97123
	Street		Uny State	County		/ap
V	Waste disposal site: Hillsboro La	ndfill - Waste Mai	nagement P	hone: (503) 640-	-9427	
-	3205 SE Minter	Bridge Rd	Hillsboro, OR	Washin	gton Co	97123
Г	Describe ashestos materials: 1	MANITE RI		County		Zip
6	Containana Numbe	76 RM	l 7	DA CMU		
C	inumbe	2 1L		ype: DA - 0 WIL		
T	otal quantity (cubic yards):	012				
A	Agent: Whithey S	かけり	Compa	ny:		or Portiand, In
2		///// ·/	Compa	ny:		
٨	777 SW ARMCO A	AVE, HILLSBO	RO, OR 97123	503-69	93-6388	
A	Address:	AVE, HILLSBO	PRO, OR 97123	503-69	93-6388	
A	Address:	AVE, HILLSBO	PRO, OR 97123	503~69	93-6388	
A NS Tra	Address: 777 SW ARMCO A	AVE, HILLSBO	PRO, OR 97123	none: 503-69	93-6388	1
A NS Tra Ag	Address: PORTER(S): ansporter #1: (Acknowledgment of gent:Whitr	AVE, HILLSBO	PRO, OR 97123 P.	none: 503~69	93-6388	Portland
A NS Tra Ag Ad	Address: 777 SW ARMCO A PORTER(S): ansporter #1: (Acknowledgment of gent: White Idress: 777 SW Armo Ave, H	AVE, HILLSBO f receipt of materials a bey Smith fillsboro, OR 971	PRO, OR 97123 P	any: IRS Enviro	93 - 6388 onmental of -6388	Portland
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A NS Tra Ag Ad Sig	Address: 777 SW ARMCO A PORTER(S): ansporter #1: (Acknowledgment of tent: Whitr Idress: 777 SW Armco Ave, H gnature: Multi- ansporter #2: (Accoult dement of	AVE, HILLSBO f receipt of materials Ney Smith Hillsboro, OR 971	PRO, OR 97123 P Comp 23 1	503-69 any: IRS Enviro Phone: 503-693 Date:	93-6388 onmental of -6388	Portland
A NS Tra Ag Ad Sig Tra Ag	Address: 777 SW ARMCO A PORTER(S): ansporter #1: (Acknowledgment of gent: White idress: 777 SW Armo Ave, H gnature: July ansporter #2: (Acknowledgment of gent:	AVE, HILLSBO f receipt of materials ney Smith fillsboro, OR 971	PRO, OR 97123 P Comp 23 Comp	any: <u>IRS Enviro</u> hone: <u>503-693</u> hone: <u>503-693</u> Date: any: Hillsboro (onmental of -6388 MAGarbage	Portland AR 1 4 202
A NS Tra Ag Ad Sig Tra Ag Ad	Address: 777 SW ARMCO A PORTER(S): ansporter #1: (Acknowledgment or gent: Whitr dress: 777 SW Armco Ave, H gnature: Multiple ansporter #2: (Acknowledgment or gent: 4945 SW Minter Bridg	AVE, HILLSBO f receipt of materials Ney Smith Hillsboro, OR 971 f receipt of materials e Rd, Hillsboro, J	PRO, OR 97123 P Comp 23 Comp 0 0 0 0 0 0 0 0 0 0 0 0 0	any: <u>IRS Enviro</u> hone: <u>503-693</u> hone: <u>503-693</u> Date: any: <u>Hillsboro (</u> phone: (503) 64	23 - 6388 2000 - 6388 - 6386 - 6388 - 6388 - 6388 - 6386 - 6386 - 638 - 6386 -	Portland
A NS Tra Ag Ad Sig Tra Ag Ad Sig	Address: 777 SW ARMCO A PORTER(S): ansporter #1: (Acknowledgment or gent: Whitr idress: 777 SW Armc Ave, H gnature: Multiple ansporter #2: (Acknowledgment or gent: 4945 SW Minter Bridg gnature: 4945 SW Minter Bridg	AVE, HILLSBO freceipt of materials Ney Smith Hillsboro, OR 971 freceint of materials e Rd, Hillsboro, J Comment	PRO, OR 97123 P	any: <u>IRS Enviro</u> hone: <u>503-693</u> phone: <u>503-693</u> Date: any: <u>Hillsboro (</u> phone: <u>(503) 64</u> Date:	23 - 6388 2000 - 6388 -6388 M/ Garbage 8-4219 M/	Portland AR 1 4 202 AR 1 4 202
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A NS Tra Ag Ad Sig Ad Sig OS Wa	Address: 777 SW ARMCO A PORTER(S): ansporter #1: (Acknowledgment of gent: Whitr Idress: 777 SW Armco Ave, H gnature: JW44 ansporter #2: (Acknowledgment of gent: JW44 ansporter #2: (Acknowledgment of	AVE, HILLSBO freceipt of materials Ney Smith fillsboro, OR 971 freceint of materials e Rd, Hillsboro, Communication bestos materials covu	PRO, OR 97123 P Comp 23 Comp 23 Comp 0R 97123 P ered by this manifest, exce anagement	any: IRS Enviro hone: 503-69 hone: 503-693 Date: any: Hillsboro (hone: (503) 64 Date: phone: 100 Date: phone: 100 Date:	93 - 6388 onmental of -6388 Sarbage 8-4219 M/ 11 below.)	Portland AR 1 4 202 AR 1 4 202
A NS Tra Ag Ad Sig Ad Sig OS Wa Na	Address: 777 SW ARMCO A PORTER(S): ansporter #1: (Acknowledgment of gent: White Idress: 777 SW Armo Ave, H gnature: July ansporter #2: (Acknowledgment of gent: 4945 SW Minter Bridg gnature: 4945 SW Minter Bridg gnature: Hillsboro La aste Disposal Site: Hillsboro La me and Title: HLI - Operator	AVE, HILLSBO freceipt of materials ney Smith fillsboro, OR 971 freceint of materials e Rd, Hillsboro, / bestos materials cov indfill - Waste Ma	PRO, OR 97123 P Comp 23 Comp 0 0 0 0 0 0 0 0 0 0 0 0 0	503-69 any: IRS Enviro Phone: 503-693 Date: Date: any: Hillsboro (Phone: (503) 64 Date: Date: pt as noted in item Date: Date: Date:	03-6388 00000000000000000000000000000000000	Portland AR 1 4 202 AR 1 4 202
A NS Tra Ag Ad Sig Tra Ag Ad Sig Wa Na Sig	Address: 777 SW ARMCO A PORTER(S): ansporter #1: (Acknowledgment of gent: White Idress: 777 SW Armo Ave, H gnature: JW44 ansporter #2: (Acknowledgment of gent: JW44 ansporter #2: (Acknowledgment of	AVE, HILLSBO freceipt of materials Ney Smith fillsboro, OR 971 freceint of materials e Rd, Hillsboro, comment bestos materials covu	PRO, OR 97123 P	any: IRS Enviro any: IRS Enviro Phone: 503-693 Date: Date: any: Hillsboro (Phone: (503) 64 Date: Date: pt as noted in item Date: Phone: Date: Phone: Phone	23 - 6388 2000 2	Portland AR 1 4 202 AR 1 4 202
A NS Tra Ag Ad Sig Ad Sig OS Wa Nav Sig	Address: 777 SW ARMCO A PORTER(S): ansporter #1: (Acknowledgment of gent: White Idress: 777 SW Armo Ave, H gnature: July ansporter #2: (Acknowledgment of gent: Address: 4945 SW Minter Bridg gnature: Address: 4945 SW Minter Bridg gnature: Hillsboro La aste Disposal Site: Hillsboro La me and Title: HLI - Operator gnature: SCHEPANCY SPACE: (Address)	AVE, HILLSBO freceipt of materials ney Smith fillsboro, OR 971 freceint of materials e Rd, Hillsboro, f bestos materials covu indfill - Waste Ma	PRO, OR 97123 P Comp 23 Comp OR 97123 P Comp OR 97123 P Comp OR 97123 P Comp	any: IRS Enviro hone: 503-693 phone: 503-693 Date: any: Hillsboro (phone: (503) 64 Date: pt as noted in item Date: Phone	03 - 63 88 00000000000000000000000000000000000	Portiand AR 1 4 202 AR 1 4 202 -9427
A NS Tra Ag Ad Sig Ad Sig Wa Nav Sig DI:	777 SW ARMCO A Address: PORTER(S): ansporter #1: (Acknowledgment of gent: White Idress: 777 SW Armco Ave, H gnature: July ansporter #2: (Acknowledgment of gent: Idress: 4945 SW Minter Bridg gnature: SAL: (Confication of receipt of as aste Disposal Site: Hillsboro La me and Title: SCREPANCY SPACE: (Add at	AVE, HILLSBO freceipt of materials ney Smith fillsboro, OR 971 freceint of materials e Rd, Hillsboro, f bestos materials covu undfill - Waste Ma bestos materials covu	PRO, OR 97123 P	any: IRS Enviro hone: 503-693 Date: Date: any: Hillsboro (Phone: (503) 64 Date: pt as noted in item Date: Phone	93 - 6388 onmental of -6388 M/ Garbage 8-4219 M/ 11 below.) : (503) 640	Portland AR 1 4 202 AR 1 4 202 -9427

Attachment 4

General Disposal Records



-OREGON CITY GARBAGE CO., INC.



P.O. BOX 1840 OREGON CITY, OR 97045 503.656.8403

www.oregoncitygarbageco.com

CURREN	CURRENT 0-30 DAYS 31-60 DAYS					61-90 DAYS	OVE	R 90 DAYS	PAY	THIS AMOUNT
CONTINUE	D ON	NEX	T PAGE.							
04/11/2023	9.31	112	3403 - MATERIAL	REF 5360238	WA	STE DISPOSAL				\$1,321.65
04/07/2023	9.08	112	3276 - MATERIAL	REF 5356784	WA	STE DISPOSAL				\$1,289.00
04/06/2023	14.3	912	3274 - MATERIAL	REF 5356077	WA	STE DISPOSAL	:.	K		\$2,042.80
04/05/2023	8.5	112	3273 - MATERIAL	REF 5355219	WA	STE DISPOSAL	(·	jer		\$1,206.66
04/04/2023	5.71	112	2691 - MATERIAL	REF 5354299	WA	STE DISPOSAL		w C	-	\$810.59
03/30/2023	6.38	112	2689 - MATERIAL	REF 5354280	WA	STE DISPOSAL		K a	NV	\$905.70
03/21/2023	6.04	112	2688 - MATERIAL	REF 5349920	WA	STE DISPOSAL		1-	<u>^</u>	\$857.44
03/27/2023	10.0	112 第1つ	1885 - MATERIAL	REF 5347551		STE DISPOSAL				\$1.682.23
03/21/2023	14.1	012 112	199 - MATERIAL	DEE 5347604						\$1,490.58
03/21/2023	7.14	112	1198 - MATERIAL	REF 0342047				V		\$2,008,73
03/09/2023	8.84	1120	0468 - MATERIAL	REF 5331343	VVA					\$1,204.90
03/09/2023	8.69	1120	0467 - MATERIAL	REF 5331346	WAS	STE DISPOSAL		NY		\$1,233.03
03/02/2023	7.03	1119	9666 - MATERIAL	REF 5325698	WAS	STE DISPOSAL		./		\$997.98
03/01/2023	9.27	1119	9467 - MATERIAL	REF 5325334	WAS	STE DISPOSAL				\$1,315.97
					419	MAIN ST				A. A.F
DATE	QTY	RE	FERENCE		DESC	RIPTION		······		BALANCE
8131	5000		. 41	9 MAIN ST	·	4204649	04/26/2023			5/15/2023
						2				
ACCOUN	NT NO		BILLI	BILLING ADDRESS		INVOICE NO	o	INVOICE DATE		DUE DATE
			· · · ·	·						

39,817.920.000.000.000.00\$39,817.92ACCOUNTS DUE BY THE 15TH OF THE MONTH UNLESS PAST DUE WHICH ARE DUE UPON RECEIPT
Terms: Oregon City Garbage Co., inc. reserves the right to accrue finance charges on any past due balance\$39,817.92

and there is a \$25.00 charge for any returned payment. Please return your invoice stub with your payment or write your account number on your check.

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		•OR]	EGON CITY GARBAGE	E CO	O., INC.			Page 2
		PO I	BOX 1840					-
	ЯK	OPE	CONCITY OF 07045					
		CILL	GOIN CIT 1, OK 97045					5000
		503.6	56.8403			ACCOU	NT NO: 0131	5000
j. se		www.	oregoncitygarbageco.com		والمعير المسترجين والمراجع والمحالة فالمحا		: NO: 4204	649
	요즘 아파 문문 같이 ?	$[1, i] \in \mathbb{N}$	$= \left\{ \left\{ \frac{1}{2} \left\{ \frac$	1. tv	a in the basis and	al and and a second second	1. K. M.	an an an tais
	DATE		REFERENCE		DESCRIPTION		a the second second	BALANCE
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	04/44/2022	10.0	1102404 MATERIAL REE 6260109					¢1 500 47
	04/11/2023	5.96	1123404 - MATERIAL REF 5360196					φ1,000.17 Φ021.00
	04/14/2023	6 20	1123832 - MATERIAL REF 5362479		MASTE DISPOSAL			\$031.09
	04/14/2023	9.64	1123837 - MATERIAL REF 5362448		WASTE DISPOSAL			\$1 368 49
	04/14/2023	6.61	1123838 - MATERIAL REF 5362508		WASTE DISPOSAL			\$938.36
	04/14/2023	5 39	1123840 - MATERIAL REF 5362551		WASTE DISPOSAL			\$765.16
in an	04/18/2023	4.7	1123918 MATERIAL REE 199534	9940) H	WASTE DISPOSAL	a ser a conse darme e re	، دېرې مېردېږې ، دې مورد و دو	\$667.21
	04/18/2023	7.53	1123919 - MATERIAL REF 5366311		WASTE DISPOSAL	41 ¹		\$1.068.96
	04/18/2023	9.8	1123920 - MATERIAL REF 5366300		WASTE DISPOSAL			\$1.391.21
	04/18/2023	8.03	1123921 - MATERIAL REF 5366491		WASTE DISPOSAL	× .		\$1.139.94
	04/18/2023	7.24	1123923 - MATERIAL REF 5366489		WASTE DISPOSAL			\$1.027.79
	04/19/2023	10.9	9 124412 - MATERIAL REF 199560		WASTE DISPOSAL			\$1,554,46
	04/21/2023	5.3	1124599 - MATERIAL REF 5368724		WASTE DISPOSAL		*	\$752.39
	03/01/2023	1	1119467		METRO TRANS FEE			\$4.25
É.	03/02/2023	· 1	1119666		METRO TRANS FEE			\$4.25
•••	03/09/2023	1	1120467	11	METRO TRANS FEE			\$4.25
	03/09/2023	1	1120468		METRO TRANS FEE			\$4.25
	03/21/2023	÷1	1121198		METRO TRANS FEE	and and		\$4.25
	03/21/2023	1	1121199	14. 1	METRO TRANS FEE	ala katal ng k	i del se del ser ser	\$4.25
	03/27/2023	. 1	1121884		METRO TRANS FEE	, en		\$4.25
	03/27/2023	1	1121885		METRO TRANS FEE			\$4.25
	03/30/2023	1	1122688		METRO TRANS FEE		1	\$4.25
	04/04/2023	1	1122689		METRO TRANS FEE			\$4.25
	04/04/2023	1	1122691		METRO TRANS FEE	•		\$4.25
	04/05/2023	1	1123272		METRO TRANS FEE		÷.	\$4.25
	04/05/2023	1	1123273		METRO TRANS FEE			\$4.25
	04/06/2023	1	1123274		METRO TRANS FEE			\$4.25
	04/07/2023	1	1123276		METRO TRANS FEE			\$4:25
	04/11/2023	1	1123403		METRO TRANS FEE			\$4:25
	04/11/2023	1	1123404		METRO TRANS FEE			\$4:25
	04/14/2023	1	1123832		METRO TRANS FEE			\$4.25
	04/14/2023	1	1123834		METRO TRANS FEE			\$4:25
	04/14/2023	1	1123837		METRO TRANS FEE			\$4,25
	04/14/2023	1	1123838		METRO TRANS FEE			\$4.25
	04/14/2023	1	1123840		METRO TRANS FEE			\$4.25
	04/10/2023	1	1123919					\$4.25 \$4.25
	04/18/2023	1	1123920		METRO TRANS FEE			\$4:20 \$4.25
	04/18/2023	1	1123921		METRO TRANSFEE			\$4.25
	04/19/2023	1	1124412		METRO TRANSFEE			\$4.25
	04/21/2023	1	1124599		METRO TRANS FEE			\$4.25
	04/05/2023	8.01	1123272 - MATERIAL REF 199303		WASTE DISPOSAL			\$900 48
	04/18/2023	1	1123918		40 YARD ROLLOFF FMI	PTY RETURN		\$500.00
	03/01/2023	1	1119467		40 YARD ROLLOFF EMI	PTY RETURN		\$172.00
	03/02/2023	1	1119666		40 YARD ROLI OFF FMI	PTY RETURN		\$172.00
	03/09/2023	1	1120467		40 YARD ROLLOFF FM	PTY RETURN		\$172.00
	03/09/2023	1	1120468		40 YARD ROLLOFF FMI	PTY RETURN		\$172.00
	03/21/2023	1	1121198		40 YARD ROLLOFF EMI	PTY RETURN		\$172.00
	03/21/2023	1	1121199		40 YARD ROLLOFF EM	PTY RETURN		\$172.00
								1 A A

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OREGON CITY GARBAGE CO., INC.

P.O. BOX 1840 OREGON CITY, OR 97045

503.656.8403

www.oregoncitygarbageco.com

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ACCOU	NT NO		BILLING ADDRESS	191	INVOICE NO	INVOICE D	ATE D	UE DATE
8131	5000		419 MAIN ST		4262665	06/29/20	06/29/2023 7/15/2	
DATE	QTY	REFEREN	CE	DESC	CRIPTION			BALANCE
)6/14/2023)6/22/2023)6/14/2023)6/22/2023)6/14/2023)6/22/2023)6/22/2023	4.26 7.86 1 1 1 1 1 1 3 1 3 3	1133225 - M 1133789 - M 1133225 1133789 1133225 1133789 1133789 1133789	ATERIAL REF 5425571 ATERIAL REF 5433863	419 WA WA ME 40` 40` DAI	MAIN ST STE DISPOSAL STE DISPOSAL TRO TRANS FEE TRO TRANS FEE YARD ROLLOFF E YARD ROLLOFF E ILY RENT	MPTY RETURN MPTY RETURN	<i>,</i>	\$604.75 \$1,115.81 \$4.25 \$4,25 \$172.00 \$172.00 \$21.00
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		0-30 D	JUNK & MISCEL GO TO OUR WEBSITE (AYS 31-60 DAYS	LANEO DR GIVE	US ITEM PICK-U E US A CALL FOI 61-90 DAYS	P IS AVAILABLE R MORE INFORM	ATION.	AMOUN
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payment or write your account number on your check.

Page 1

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Page 1

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OREGON CITY GARBAGE CO., INC. P.O. BOX 1840 OREGON CITY, OR 97045 503.656.8403 www.oregoncitygarbageco.com

	CCOUNT NO BILLING ADDRESS			O BILLING ADDRESS INVOICE NO INVOICE DAT		ATE	DU	IE DATE	
81315000	0 419 MAIN ST		000 419 MAIN ST 4154704		02/28/202	23	3/1	5/2023	
DATE QTY REF	ERENCE		DESC	RIPTION					BALANCE
02/21/2023 9.0511182 02/21/2023 8.1711182 02/21/2023 7.1811182 02/21/2023 7.1811182 02/21/2023 8.2411182 02/22/2023 10.021186 02/22/2023 7.8 11186 02/22/2023 7.8 11186 02/22/2023 7.3211186 02/23/2023 7.3211186 02/23/2023 9.5811186 02/23/2023 9.5811188 02/27/2023 9.5111188 02/27/2023 1 11182 02/21/2023 1 11182 02/21/2023 1 11182	238 - MATERIAL F 239 - MATERIAL F 241 - MATERIAL F 243 - MATERIAL F 334 - MATERIAL F 335 - MATERIAL F 336 - MATERIAL F 338 - MATERIAL F 339 - MATERIAL F 345 - MATERIAL F 846 - MATERIAL F 238 239 241	REF 5320943 REF 5320997 REF 5320754 REF 5320754 REF 5321819 REF 5321536 REF 5321529 REF 5321529 REF 5322127 REF 5322128 REF 53223852 REF 5323852 REF 5323839	419 I WAS WAS WAS WAS WAS WAS WAS WAS WAS WAS	MAIN ST STE DISPOSAL STE DIS	215	CUX L			\$1,284.74 \$1,159.81 \$1,019.27 \$1,169.75 \$1,422.44 \$1,377.01 \$1,107.29 \$1,545.94 \$1,039.15 \$1,359.98 \$867.38 \$1,350.04 \$4.25 \$4.25 \$4.25
CURRENT	0-30 DAYS	31-60 DAYS	(61-90 DAYS	OVEF	90 DAYS	PA	(THIS	AMOUNT
15,713.54	0.00	0.00		0.00		0.00	-	\$15,7	13.54

ACCOUNTS DUE BY THE 15TH OF THE MONTH UNLESS PAST DUE WHICH ARE DUE UPON RECEIPT Terms: Oregon City Garbage Co., Inc. reserves the right to accrue finance charges on any past due balance and there is a \$25.00 charge for any returned payment. Please return your invoice stub with your payment or write your account number on your check. • OREGON CITY GARBAGE CO., INC. P.O. BOX 1840 OREGON CITY, OR 97045

503.656.8403

www.oregoncitygarbageco.com

ACCOUNT NO: 81315000

INVOICE NO: 4154704

DATE	QTY	REFERENCE	DESCRIPTION	BALANCE
CONTINUE	D FRO	DM PREVIOUS PAGE.		
02/21/2023	1	1118243	METRO TRANS FEE	\$4.25
02/22/2023	1	1118634	METRO TRANS FEE	\$4,25
02/22/2023	1	1118635	METRO TRANS FEE	\$4.25
02/22/2023	1	1118636	METRO TRANS FEE	\$4.25
02/22/2023	1	1118637	METRO TRANS FEE	\$4.25
02/23/2023	1	1118638	METRO TRANS FEE	\$4.25
02/23/2023	1	1118639	METRO TRANS FEE	\$4.25
02/27/2023	1	1118845	METRO TRANS FEE	\$4.25
02/27/2023	1	1118846	METRO TRANS FEE	\$4.25
02/21/2023	1	1118238	40 YARD ROLLOFF EMPTY RETURN	\$222.00
02/21/2023	1	1118239	40 YARD ROLLOFF EMPTY RETURN	\$222.00
02/21/2023	1	1118241	40 YARD ROLLOFF EMPTY RETURN	\$222.00
02/21/2023	1	1118243	40 YARD ROLLOFF EMPTY RETURN	\$222.00
02/22/2023	1	1118634	40 YARD ROLLOFF EMPTY RETURN	\$172.00
02/22/2023	1	1118635	40 YARD ROLLOFF EMPTY RETURN	\$172.00
02/22/2023	- 1	1118636	40 YARD ROLLOFF EMPTY RETURN	\$172.00
02/22/2023	1	1118637	40 YARD ROLLOFF EMPTY RETURN	\$172.00
02/23/2023	1	1118638	40 YARD ROLLOFF EMPTY RETURN	\$172.00
02/23/2023	1	1118639	40 YARD ROLLOFF EMPTY RETURN	\$172.00
02/27/2023	1	1118845	40 YARD ROLLOFF EMPTY RETURN	\$172.00
02/27/2023	1	1118846	40 YARD ROLLOFF EMPTY RETURN	\$172.00
			SUMMARY	
			PREVIOUS BALANCE	\$0.00

TOTAL BALANCE DUE	\$15,713.54
NEW CHARGES	\$17,017.80
PAYMENTS/CREDITS	(\$1,304.26)
PREVIOUS BALANCE	\$0.00



Attachment 5

Gully Washer and Oil-Stained Concrete Analytical Reports





AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Friday, August 4, 2023 Jacob Faust Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232

RE: A3F1614 - Blue Heron Paper Mill - M0496.02.003

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3F1614, which was received by the laboratory on 6/28/2023 at 4:00:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>pnerenberg@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information (See Cooler Receipt Form for details)

Default Cooler 5.5 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	<u>Report ID:</u>
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION									
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received					
Concrete-0628	A3F1614-01	Soil	06/28/23 14:20	06/28/23 16:00					
DS-15	A3F1614-02	Soil	06/28/23 14:25	06/28/23 16:00					
DS-16	A3F1614-03	Soil	06/28/23 14:30	06/28/23 16:00					
DS-17	A3F1614-04	Soil	06/28/23 14:35	06/28/23 16:00					
DS-18	A3F1614-05	Soil	06/28/23 14:40	06/28/23 16:00					

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID									
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref	Notes	
Concrete-0628 (A3F1614-01)	result	Linin	Linit	Matrix: Soil	Dilution	Batch:	23F1079	110103	
Gasoline Range Organics	ND		20.6	mg/kg dry	1	06/29/23 22:21	NWTPH-HCID		
Diesel Range Organics	DET		51.4	mg/kg dry	1	06/29/23 22:21	NWTPH-HCID	A-01	
Oil Range Organics	DET		103	mg/kg dry	1	06/29/23 22:21	NWTPH-HCID		
Surrogate: o-Terphenyl (Surr)		Recove	ry: 95 %	Limits: 50-150 %	1	06/29/23 22:21	NWTPH-HCID		
4-Bromofluorobenzene (Surr)			77 %	50-150 %	1	06/29/23 22:21	NWTPH-HCID		

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01)				Matrix: Soil		Batch:	23G0138	
Diesel	ND		804	mg/kg dry	40	07/07/23 01:20	NWTPH-Dx	
Oil	35900		1610	mg/kg dry	40	07/07/23 01:20	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)			Recovery: %	Limits: 50-150 %	40	07/07/23 01:20	NWTPH-Dx	S-01

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

Report ID:	
A3F1614 - 08 04 23	1136

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A									
	Sample	Detection	Reporting			Date			
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes	
Concrete-0628 (A3F1614-01)				Matrix: Soil		Batch: 2	Batch: 23F1147		
Aroclor 1016	ND		10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A		
Aroclor 1221	ND		10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A		
Aroclor 1232	ND		10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A		
Aroclor 1242	127		10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A	P-09	
Aroclor 1248	ND		10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A		
Aroclor 1254	121		10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A	P-12	
Aroclor 1260	53.9		10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A	P-12	
Surrogate: Decachlorobiphenyl (Surr)		Reco	very: 84 %	Limits: 60-125 %	5 I	07/03/23 09:46	EPA 8082A		
DS-15 (A3F1614-02)				Matrix: Soil		Batch: 23G0216		C-07	
Aroclor 1016	ND		23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1221	ND		23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1232	ND		23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1242	ND		23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1248	ND		23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1254	ND		23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1260	ND		23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Surrogate: Decachlorobiphenyl (Surr)		Reco	very: 61 %	Limits: 60-125 %	6 I	07/10/23 18:41	EPA 8082A		
DS-16 (A3F1614-03)				Matrix: Soil		Batch: 2	23G0216	C-07	
Aroclor 1016	ND		57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A		
Aroclor 1221	ND		57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A		
Aroclor 1232	ND		57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A		
Aroclor 1242	ND		57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A		
Aroclor 1248	ND		57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A		
Aroclor 1254	ND		57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A		
Aroclor 1260	ND		57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A		
Surrogate: Decachlorobiphenyl (Surr)		Reco	very: 94 %	Limits: 60-125 %	5 I	07/10/23 19:52	EPA 8082A		
DS-17 (A3F1614-04)				Matrix: Soil		Batch: 2	23G0216	C-07	
Aroclor 1016	ND		13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A		
Aroclor 1221	ND		13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A		
Aroclor 1232	ND		13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A		

Apex Laboratories

Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

Report ID:	
A3F1614 - 08 04 23 1136	5

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A									
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
DS-17 (A3F1614-04)				Matrix: Soil	Matrix: Soil Batch: 23G0216			C-07	
Aroclor 1242	ND		13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A		
Aroclor 1248	ND		13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A		
Aroclor 1254	ND		13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A		
Aroclor 1260	ND		13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A		
Surrogate: Decachlorobiphenyl (Surr)		Reco	very: 65 %	Limits: 60-125 %	1	07/10/23 18:06	EPA 8082A		
DS-18 (A3F1614-05)				Matrix: Soil		Batch: 2	23G0216	C-07	
Aroclor 1016	ND		11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1221	ND		11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1232	ND		11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1242	ND		11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1248	ND		11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A		
Aroclor 1254	29.9		11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A	P-10	
Aroclor 1260	34.1		11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A	P-10	
Surrogate: Decachlorobiphenyl (Surr)		Reco	very: 77 %	Limits: 60-125 %	1	07/10/23 18:41	EPA 8082A		

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

Repo	rt I	D:	
A3F1614 - 08	04	23	1136

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
DS-15 (A3F1614-02)				Matrix: Soil		Batch:	23G0217	
Acenaphthene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Acenaphthylene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Anthracene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Benz(a)anthracene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Benzo(a)pyrene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Benzo(b)fluoranthene	28.6		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Benzo(k)fluoranthene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Chrysene	30.4		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Fluoranthene	48.6		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Fluorene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
1-Methylnaphthalene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
2-Methylnaphthalene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Naphthalene	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Phenanthrene	52.9		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Pyrene	49.9		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Dibenzofuran	ND		24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		Reco	very: 77 %	Limits: 44-120 %	1	07/10/23 18:29	EPA 8270E SIM	
p-Terphenyl-d14 (Surr)			68 %	54-127 %	1	07/10/23 18:29	EPA 8270E SIM	
DS-16 (A3E1614-03)				Matrix: Soil		Batch:	2360217	

DS-16 (A3F1614-03)			Matrix: Soil		Batch: 23G0217		
Acenaphthene	ND	 56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Acenaphthylene	ND	 56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Anthracene	85.7	 56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Benz(a)anthracene	177	 56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Benzo(a)pyrene	245	 56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Benzo(b)fluoranthene	410	 56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Benzo(k)fluoranthene	116	 56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	M-05
Benzo(g,h,i)perylene	296	 56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Chrysene	370	 56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	 56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	

Apex Laboratories

Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)									
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
DS-16 (A3F1614-03)				Matrix: Soil		Batch:	23G0217		
Fluoranthene	476		56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM		
Fluorene	ND		56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	248		56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM		
1-Methylnaphthalene	ND		56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM		
2-Methylnaphthalene	ND		56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM		
Naphthalene	72.4		56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM		
Phenanthrene	387		56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM		
Pyrene	551		56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM		
Dibenzofuran	ND		56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM		
Surrogate: 2-Fluorobiphenyl (Surr)		Reco	very: 91 %	Limits: 44-120 %	5 1	07/10/23 18:54	EPA 8270E SIM		
p-Terphenyl-d14 (Surr)			84 %	54-127 %	5 1	07/10/23 18:54	EPA 8270E SIM		
				Metrix: Call		Betek	0000047		

DS-17 (A3F1614-04)				Matrix: Soil	Batch		23G0217	
Acenaphthene	29.2		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Acenaphthylene	37.3		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Anthracene	122		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Benz(a)anthracene	182		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Benzo(a)pyrene	262		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Benzo(b)fluoranthene	374		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Benzo(k)fluoranthene	95.7		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	M-05
Benzo(g,h,i)perylene	239		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Chrysene	352		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Dibenz(a,h)anthracene	37.0		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Fluoranthene	467		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Fluorene	27.2		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	224		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
1-Methylnaphthalene	17.5		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
2-Methylnaphthalene	24.9		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Naphthalene	36.2		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Phenanthrene	304		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Pyrene	528		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Dibenzofuran	17.7		13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		Recov	very: 83 %	Limits: 44-120 %	1	07/10/23 19:20	EPA 8270E SIM	

Apex Laboratories

Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

	Polyaro	matic Hydroca	arbons (PA	AHs) by EPA 827	70E (SIM)			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DS-17 (A3F1614-04)				Matrix: Soil		Batch:	23G0217	
Surrogate: p-Terphenyl-d14 (Surr)		Recove	ry: 76%	Limits: 54-127 %	1	07/10/23 19:20	EPA 8270E SIM	
DS-18 (A3F1614-05)				Matrix: Soil		Batch:	23G0217	
Acenaphthene	ND		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Acenaphthylene	ND		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Anthracene	ND		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Benz(a)anthracene	148		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	M-05
Benzo(a)pyrene	223		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Benzo(b)fluoranthene	511		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Benzo(k)fluoranthene	143		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	M-05
Benzo(g,h,i)perylene	243		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Chrysene	482		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Fluoranthene	459		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Fluorene	ND		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	231		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
1-Methylnaphthalene	ND		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
2-Methylnaphthalene	ND		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Naphthalene	ND		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Phenanthrene	228		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Pyrene	439		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Dibenzofuran	ND		111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		Recove	ry: 83 %	Limits: 44-120 %	10	07/10/23 19:45	EPA 8270E SIM	
p-Terphenyl-d14 (Surr)			79 %	54-127 %	10	07/10/23 19:45	EPA 8270E SIM	

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

	Sen	nivolatile Org	anic Compo	unds by EPA	8270E			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01RE1)				Matrix: Soi	I	Batch:	23G0058	
Acenaphthene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Acenaphthylene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Anthracene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benz(a)anthracene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzo(a)pyrene	ND	1020	2030	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzo(b)fluoranthene	ND	1020	2030	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzo(k)fluoranthene	ND	1020	2030	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzo(g,h,i)perylene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Chrysene	ND	2340	2340	ug/kg dry	500	07/06/23 14:46	EPA 8270E	R-02
Dibenz(a,h)anthracene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Fluoranthene	939	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	J
Fluorene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1-Methylnaphthalene	ND	1360	2710	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Methylnaphthalene	ND	1360	2710	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Naphthalene	ND	1360	2710	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Phenanthrene	2890	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Pyrene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Carbazole	ND	1020	2030	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Dibenzofuran	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Chlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Chloro-3-methylphenol	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4-Dichlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4-Dimethylphenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4-Dinitrophenol	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Methylphenol	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
3+4-Methylphenol(s)	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Nitrophenol	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Nitrophenol	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Pentachlorophenol (PCP)	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Phenol	ND	1360	2710	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	

Apex Laboratories

Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

Report ID:	
A3F1614 - 08 04 23 11	136

ANALYTICAL SAMPLE RESULTS

	Sen	nivolatile Org	anic Compou	unds by EPA	8270E			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01RE1)				Matrix: Soi	I	Batch: 23G0058		
2,3,5,6-Tetrachlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4,5-Trichlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4,6-Trichlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	10200	20300	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Butyl benzyl phthalate	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Diethylphthalate	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Dimethylphthalate	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Di-n-butylphthalate	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Di-n-octyl phthalate	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
N-Nitrosodimethylamine	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
N-Nitrosodiphenylamine	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Hexachlorobenzene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Hexachlorobutadiene	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Hexachlorocyclopentadiene	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Hexachloroethane	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Chloronaphthalene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,2,4-Trichlorobenzene	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Bromophenyl phenyl ether	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Aniline	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Chloroaniline	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Nitroaniline	ND	13600	27100	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
3-Nitroaniline	ND	13600	27100	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Nitroaniline	ND	13600	27100	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Nitrobenzene	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4-Dinitrotoluene	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,6-Dinitrotoluene	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzoic acid	ND	84900	169000	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzyl alcohol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	

Apex Laboratories

Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

	Sem	nivolatile Organ	nic Comp	ounds by EPA 8	270E			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01RE1)				Matrix: Soil		Batch: 2	23G0058	
Isophorone	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Azobenzene (1,2-DPH)	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
3,3'-Dichlorobenzidine	ND	13600	27100	ug/kg dry	500	07/06/23 14:46	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,3-Dinitrobenzene	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,4-Dinitrobenzene	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Pyridine	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,2-Dichlorobenzene	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,3-Dichlorobenzene	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,4-Dichlorobenzene	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery	v: 74 %	Limits: 37-122 %	500	07/06/23 14:46	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			77 %	44-120 %	500	07/06/23 14:46	EPA 8270E	S-05
Phenol-d6 (Surr)			45 %	33-122 %	500	07/06/23 14:46	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			109 %	54-127 %	500	07/06/23 14:46	EPA 8270E	S-05
2-Fluorophenol (Surr)			38 %	35-120 %	500	07/06/23 14:46	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)			647 %	39-132 %	500	07/06/23 14:46	EPA 8270E	S-05

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

		Total Meta	ls by EPA 60	20B (ICPMS)				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01RE1)				Matrix: Soi	I			
Batch: 23G0050								
Arsenic	5.57		1.08	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Barium	167		1.08	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Cadmium	2.04		0.215	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Chromium	27.3		1.08	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Lead	92.7		0.215	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Mercury	0.436		0.0861	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Selenium	ND		1.08	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Silver	ND		0.215	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
DS-15 (A3F1614-02)				Matrix: Soi	I			
Batch: 23G0173								
Arsenic	10.8		2.52	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Barium	99.4		2.52	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Cadmium	1.17		0.505	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Chromium	15.4		2.52	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Lead	26.5		0.505	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Mercury	ND		0.202	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Selenium	ND		2.52	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Silver	ND		0.505	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
DS-16 (A3F1614-03)				Matrix: Soi	I			
Batch: 23G0173								
Arsenic	ND		2.91	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Barium	185		2.91	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Cadmium	1.97		0.581	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Chromium	10.8		2.91	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Lead	15.8		0.581	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Mercury	ND		0.232	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Selenium	ND		2.91	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Silver	ND		0.581	mg/kg dry	10	07/07/23 21:45	EPA 6020B	

DS-17 (A3F1614-04)

Batch: 23G0173

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The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Matrix: Soil



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

		Total Meta	ls by EPA 602	20B (ICPMS)				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
DS-17 (A3F1614-04)				Matrix: Soil				
Arsenic	11.2		1.44	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Barium	80.4		1.44	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Cadmium	1.47		0.288	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Chromium	50.3		1.44	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Lead	328		0.288	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Mercury	0.174		0.115	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Selenium	ND		1.44	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Silver	1.03		0.288	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
DS-18 (A3F1614-05)				Matrix: Soil				
Batch: 23G0173								
Arsenic	15.9		1.15	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Barium	89.6		1.15	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Cadmium	2.39		0.230	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Chromium	33.8		1.15	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Lead	91.9		0.230	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Mercury	ND		0.0921	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Selenium	ND		1.15	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Silver	ND		0.230	mg/kg dry	10	07/07/23 21:56	EPA 6020B	

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Philip Nerenberg, Lab Director



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Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

		TCLP Meta	als by EPA 60	20B (ICP <mark>M</mark> S	5)			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01)				Matrix: So	il			
Batch: 23F1141								
Arsenic	ND		0.100	mg/L	10	07/03/23 14:59	1311/6020B	
Barium	ND		5.00	mg/L	10	07/03/23 14:59	1311/6020B	
Cadmium	ND		0.100	mg/L	10	07/03/23 14:59	1311/6020B	
Chromium	ND		0.100	mg/L	10	07/03/23 14:59	1311/6020B	
Lead	ND		0.0500	mg/L	10	07/03/23 14:59	1311/6020B	
Mercury	ND		0.00700	mg/L	10	07/03/23 14:59	1311/6020B	
Selenium	ND		0.100	mg/L	10	07/03/23 14:59	1311/6020B	
Concrete-0628 (A3F1614-01RE1)				Matrix: So	il			
Batch: 23G0113								
Silver	ND		0.100	mg/L	5	07/06/23 11:58	1311/6020B	
DS-16 (A3F1614-03)				Matrix: So	il			
Batch: 23G0266								
Arsenic	ND		0.100	mg/L	10	07/11/23 16:45	1311/6020B	
Barium	ND		5.00	mg/L	10	07/11/23 16:45	1311/6020B	
Cadmium	ND		0.100	mg/L	10	07/11/23 16:45	1311/6020B	
Chromium	ND		0.100	mg/L	10	07/11/23 16:45	1311/6020B	
Lead	ND		0.0500	mg/L	10	07/11/23 16:45	1311/6020B	
Mercury	ND		0.00700	mg/L	10	07/11/23 16:45	1311/6020B	
Selenium	ND		0.100	mg/L	10	07/11/23 16:45	1311/6020B	
Silver	ND		0.100	mg/L	10	07/11/23 16:45	1311/6020B	
DS-18 (A3F1614-05)				Matrix: So	il			
Batch: 23G0266								
Arsenic	ND		0.100	mg/L	10	07/11/23 17:01	1311/6020B	
Barium	ND		5.00	mg/L	10	07/11/23 17:01	1311/6020B	
Cadmium	ND		0.100	mg/L	10	07/11/23 17:01	1311/6020B	
Chromium	ND		0.100	mg/L	10	07/11/23 17:01	1311/6020B	
Lead	ND		0.0500	mg/L	10	07/11/23 17:01	1311/6020B	
Mercury	ND		0.00700	mg/L	10	07/11/23 17:01	1311/6020B	
Selenium	ND		0.100	mg/L	10	07/11/23 17:01	1311/6020B	
Silver	ND		0.100	mg/L	10	07/11/23 17:01	1311/6020B	

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AMENDED REPORT

Project:

Apex Laboratories, LLC

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<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01)				Matrix: Soil	l	Batch:	23F1093	
% Solids	97.0		1.00	%	1	06/30/23 07:24	EPA 8000D	
DS-15 (A3F1614-02)				Matrix: Soil	l	Batch:	23F1093	
% Solids	41.2		1.00	%	1	06/30/23 07:24	EPA 8000D	
DS-16 (A3F1614-03)				Matrix: Soil		Batch:	Batch: 23F1093	
% Solids	34.2		1.00	%	1	06/30/23 07:24	EPA 8000D	
DS-17 (A3F1614-04)				Matrix: Soil		Batch:	23F1093	
% Solids	71.7		1.00	%	1	06/30/23 07:24	EPA 8000D	
DS-18 (A3F1614-05)				Matrix: Soil		Batch:	23F1093	
% Solids	87.6		1.00	%	1	06/30/23 07:24	EPA 8000D	

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Philip Nerenberg, Lab Director



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Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

		TCLP E	Extraction by	EPA 1311				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01)				Matrix: So	il	Batch:	23F1124	
TCLP Extraction	PREP			N/A	1	06/29/23 18:03	EPA 1311	
DS-16 (A3F1614-03)				Matrix: So	il	Batch:		
TCLP Extraction	PREP			N/A	1	07/10/23 13:53	EPA 1311	
DS-18 (A3F1614-05)				Matrix: So	il	Batch:	23G0219	
TCLP Extraction	PREP			N/A	1	07/10/23 13:53	EPA 1311	

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Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		Hyd	rocarbon l	dentificat	ion Scree	en by NW	TPH-HCI	D				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1079 - NWTPH-HCID	(Soil)						Soi	I				
Blank (23F1079-BLK1)			Prepare	d: 06/29/23	06:26 Ana	lyzed: 06/29	0/23 19:56					
NWTPH-HCID												
Gasoline Range Organics	ND		20.0	mg/kg w	et 1							
Diesel Range Organics	ND		50.0	mg/kg w	et 1							
Oil Range Organics	ND		100	mg/kg w	et 1							
Surr: o-Terphenyl (Surr)		Reco	very: 101 %	Limits: 50)-150 %	Dilt	ution: 1x					
4-Bromofluorobenzene (Surr)			99 %	50	-150 %		"					
Duplicate (23F1079-DUP1)			Prepare	d: 06/29/23	06:26 Ana	lyzed: 06/29	0/23 22:41					
QC Source Sample: Concrete-0628	8 (A3F1614	<u>-01)</u>										
NWTPH-HCID												
Gasoline Range Organics	ND		20.6	mg/kg di	ry 1		ND				30%	
Diesel Range Organics	DET		51.5	mg/kg d	ry 1		ND				30%	A-0
Oil Range Organics	DET		103	mg/kg d	ry 1		ND				30%	
Surr: o-Terphenyl (Surr)		Rec	overy: 96%	Limits: 50)-150 %	Dilt	ution: 1x					
4-Bromofluorobenzene (Surr)			79 %	50	-150 %		"					
Duplicate (23F1079-DUP2)			Prepare	d: 06/29/23	14:16 Ana	lyzed: 06/29	0/23 20:58					ТЕМР
QC Source Sample: Non-SDG (A3	F1641-01)											
Gasoline Range Organics	ND		19.3	mg/kg d	ry 1		ND				30%	
Diesel Range Organics	ND		48.3	mg/kg d	ry 1		ND				30%	
Oil Range Organics	DET		96.6	mg/kg d	ry 1		ND				30%	
Surr: o-Terphenyl (Surr)		Reco	very: 102 %	Limits: 50)-150 %	Dili	ution: 1x					
4-Bromofluorobenzene (Surr)			94 %	50	-150 %		"					

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Philip Nerenberg, Lab Director



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Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/o	or Oil Hyd	rocarbo	ns by NW	TPH-Dx						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Not	tes
Batch 23G0138 - EPA 3546 (F	uels)						So	il					
Blank (23G0138-BLK1)			Prepared	d: 07/06/23	14:59 Ana	lyzed: 07/06	6/23 20:38						
NWTPH-Dx													
Diesel	ND		20.0	mg/kg w	et 1								
Oil	ND		40.0	mg/kg w	et 1								
Surr: o-Terphenyl (Surr)		Rec	overy: 86%	Limits: 50)-150 %	Di	lution: 1x						
LCS (23G0138-BS1)			Prepared	d: 07/06/23	14:59 Ana	lyzed: 07/06	6/23 21:01						
<u>NWTPH-Dx</u>													
Diesel	116		20.0	mg/kg w	et 1	125		93	38-132%				
Surr: o-Terphenyl (Surr)		Rec	overy: 86%	Limits: 50	0-150 %	Di	lution: 1x						
Duplicate (23G0138-DUP1)			Prepared	1: 07/06/23	14:59 Ana	lyzed: 07/06	6/23 22:12						
QC Source Sample: Non-SDG (A3	3F1575-03)												
Diesel	ND		7430	mg/kg di	ry 200		ND				30%		
Oil	46200		14900	mg/kg d	ry 200		86900			61	30%		F-1.
Surr: o-Terphenyl (Surr)		R	ecovery: %	Limits: 50)-150 %	Di	lution: 2005	¢				S-01	
Duplicate (23G0138-DUP2)			Preparec	d: 07/06/23	14:59 Ana	lyzed: 07/0	7/23 07:12						
OC Source Sample: Non-SDG (A3	3G0796-04 <u>)</u>												
Diesel	ND		25.5	mg/kg di	ry 1		ND				30%		
Oil	ND		51.0	mg/kg d	ry 1		ND				30%		
Surr: o-Terphenyl (Surr)		Rec	overy: 69 %	Limits: 50)-150 %	Di	lution: 1x						

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Philip Nerenberg, Lab Director



AMENDED REPORT

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlo	rinated Bi	ohenyls	by EPA 80	082A					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1147 - EPA 3546							So	il				. <u> </u>
Blank (23F1147-BLK1)			Prepareo	d: 06/30/23 0	9:59 Ana	lyzed: 07/03	3/23 09:11					C-07
EPA 8082A												
Aroclor 1016	ND		10.0	ug/kg we	t 1							
Aroclor 1221	ND		10.0	ug/kg we	t 1							
Aroclor 1232	ND		10.0	ug/kg we	t 1							
Aroclor 1242	ND		10.0	ug/kg we	t 1							
Aroclor 1248	ND		10.0	ug/kg we	t 1							
Aroclor 1254	ND		10.0	ug/kg we	t 1							
Aroclor 1260	ND		10.0	ug/kg we	t 1							
Surr: Decachlorobiphenyl (Surr)		Recov	very: 105 %	Limits: 60-	125 %	Dil	ution: 1x					
LCS (23F1147-BS1)			Prepared	d: 06/30/23 0	9:59 Ana	lyzed: 07/03	/23 09:29					C-07
<u>EPA 8082A</u>												
Aroclor 1016	224		10.0	ug/kg we	t 1	250		90	47-134%			
Aroclor 1260	265		10.0	ug/kg we	t 1	250		106	53-140%			
Surr: Decachlorobiphenyl (Surr)		Recon	very: 107 %	Limits: 60-	125 %	Dili	ution: 1x					
Duplicate (23F1147-DUP1)			Prepareo	d: 06/30/23 0	9:59 Ana	lyzed: 07/03	/23 10:21					C-07, COMP
QC Source Sample: Non-SDG (A3	<u>3F1457-31)</u>											
Aroclor 1016	ND		11.3	ug/kg dry	· 1		ND				30%	
Aroclor 1221	ND		11.3	ug/kg dry	/ 1		ND				30%	
Aroclor 1232	ND		11.3	ug/kg dry	/ 1		ND				30%	
Aroclor 1242	ND		11.3	ug/kg dry	/ 1		ND				30%	
Aroclor 1248	ND		11.3	ug/kg dry	/ 1		ND				30%	
Aroclor 1254	ND		11.3	ug/kg dry	· 1		ND				30%	
Aroclor 1260	ND		11.3	ug/kg dry	/ 1		24.5			***	30%	Q-(
Surr: Decachlorobiphenyl (Surr)		Recov	very: 102 %	Limits: 60-	125 %	Dili	ution: 1x					
Matrix Spike (23F1147-MS1)			Prepareo	d: 06/30/23 0	9:59 Ana	lyzed: 07/03	/23 10:21					C-07
QC Source Sample: Concrete-062	<u>8 (A3F1614-</u>	<u>01)</u>	1									-
EPA 8082A												
Aroclor 1016	314		10.0	ug/kg drv	⁷ 1	251	ND	125	47-134%			
Aroclor 1260	243		10.0	ug/kg dry	7 1	251	53.9	75	53-140%			
Surr: Decachlorobiphenyl (Surr)		Reco	wery: 84 %	Limits: 60-	125 %	Dili	ution: 1x					

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AMENDED REPORT



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlor	inated E	Biphenyls	by EPA 80	82A				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits RPI	RPD Limit	Notes
Batch 23F1147 - EPA 3546							Soil				

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Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlo	inated Bip	ohenyls	by EPA 80	082A					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0216 - EPA 3546							So	il				
Blank (23G0216-BLK1)			Preparec	1: 07/10/23 0	9:47 Ana	lyzed: 07/10)/23 18:06					C-07
EPA 8082A												
Aroclor 1016	ND		10.0	ug/kg we	t 1							
Aroclor 1221	ND		10.0	ug/kg we	t 1							
Aroclor 1232	ND		10.0	ug/kg we	t 1							
Aroclor 1242	ND		10.0	ug/kg we	t 1							
Aroclor 1248	ND		10.0	ug/kg we	t 1							
Aroclor 1254	ND		10.0	ug/kg we	t 1							
Aroclor 1260	ND		10.0	ug/kg we	t 1							
Surr: Decachlorobiphenyl (Surr)		Rec	overy: 88 %	Limits: 60-	125 %	Dil	ution: 1x					
LCS (23G0216-BS1)			Preparec	l: 07/10/23 0	9:47 Ana	lyzed: 07/10)/23 18:23					C-07
EPA 8082A			1									
Aroclor 1016	195		10.0	ug/kg we	t 1	250		78	47-134%			
Aroclor 1260	227		10.0	ug/kg we	t 1	250		91	53-140%			
Surr: Decachlorobiphenyl (Surr)		Rec	overy: 96%	Limits: 60-	125 %	Dil	ution: 1x					
Duplicate (23G0216-DUP1)			Preparec	l: 07/10/23 0	9:47 Ana	lyzed: 07/10)/23 19:16					C-07
QC Source Sample: DS-15 (A3F)	<u>1614-02)</u>											
EPA 8082A												
Aroclor 1016	ND		23.0	ug/kg dry	/ 1		ND				30%	
Aroclor 1221	ND		23.0	ug/kg dry	/ 1		ND				30%	
Aroclor 1232	ND		23.0	ug/kg dry	/ 1		ND				30%	
Aroclor 1242	ND		23.0	ug/kg dry	/ 1		ND				30%	
Aroclor 1248	ND		23.0	ug/kg dry	/ 1		ND				30%	
Aroclor 1254	ND		23.0	ug/kg dry	/ 1		ND				30%	
Aroclor 1260	ND		23.0	ug/kg dry	/ 1		ND				30%	
Surr: Decachlorobiphenyl (Surr)		Rec	overy: 51 %	Limits: 60-	125 %	Dil	ution: 1x					S-03
Matrix Spike (23G0216-MS1)			Preparec	l: 07/10/23 0	9:47 Ana	lyzed: 07/10)/23 19:52					C-07
OC Source Sample: Non-SDC (A	3G0859-01)		1			•						
<u>EPA 8082A</u>	<u>560657-011</u>											
Aroclor 1016	185		9.84	ug/kg dry	/ 1	246	ND	75	47-134%			
Aroclor 1260	187		9.84	ug/kg dry	/ 1	246	5.42	74	53-140%			

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlor	rinated E	iphenyls l	by EPA 80	82A				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits RPD	RPD Limit	Notes
Batch 23G0216 - EPA 3546							Soil				
Matrix Spike (23G0216-MS1)			Prepareo	1: 07/10/23	09:47 Anal	yzed: 07/10/	/23 19:52				C-07
QC Source Sample: Non-SDG (A3)	<u>G0859-01)</u>										
Surr: Decachlorobiphenyl (Surr)		Recu	overy: 83 %	Limits: 6	0-125 %	Dilu	ution: 1x				

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Project:

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		Polya	romatic Hy	drocarbon	s (PAHs) by EPA	8270E (S	SIM)				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0217 - EPA 3546							Soi	1				
Blank (23G0217-BLK1)			Prepared	1: 07/10/23 09	:49 Ana	lyzed: 07/10	/23 14:40					
EPA 8270E SIM												
Acenaphthene	ND		2.67	ug/kg wet	1							
Acenaphthylene	ND		2.67	ug/kg wet	1							
Anthracene	ND		2.67	ug/kg wet	1							
Benz(a)anthracene	ND		2.67	ug/kg wet	1							
Benzo(a)pyrene	ND		2.67	ug/kg wet	1							
Benzo(b)fluoranthene	ND		2.67	ug/kg wet	1							
Benzo(k)fluoranthene	ND		2.67	ug/kg wet	1							
Benzo(g,h,i)perylene	ND		2.67	ug/kg wet	1							
Chrysene	ND		2.67	ug/kg wet	1							
Dibenz(a,h)anthracene	ND		2.67	ug/kg wet	1							
Fluoranthene	ND		2.67	ug/kg wet	1							
Fluorene	ND		2.67	ug/kg wet	1							
Indeno(1,2,3-cd)pyrene	ND		2.67	ug/kg wet	1							
1-Methylnaphthalene	ND		2.67	ug/kg wet	1							
2-Methylnaphthalene	ND		2.67	ug/kg wet	1							
Naphthalene	ND		2.67	ug/kg wet	1							
Phenanthrene	ND		2.67	ug/kg wet	1							
Pyrene	ND		2.67	ug/kg wet	1							
Dibenzofuran	ND		2.67	ug/kg wet	1							
Surr: 2-Fluorobiphenyl (Surr)		Rec	overy: 89%	Limits: 44-1	20 %	Dilı	ution: 1x					
p-Terphenyl-d14 (Surr)			105 %	54-1	27 %		"					
LCS (23G0217-BS1)			Preparec	1: 07/10/23 09	:49 Ana	lyzed: 07/10	/23 15:05					
EPA 8270E SIM												
Acenaphthene	546		2.67	ug/kg wet	1	533		102	40-123%			
Acenanhthylene	529		2.67	ua/ka wet	1	533		99	32-132%			

Acenaphthene	546	 2.67	ug/kg wet	1	533	 102	40-123%	 	
Acenaphthylene	529	 2.67	ug/kg wet	1	533	 99	32-132%	 	
Anthracene	526	 2.67	ug/kg wet	1	533	 99	47-123%	 	
Benz(a)anthracene	505	 2.67	ug/kg wet	1	533	 95	49-126%	 	
Benzo(a)pyrene	532	 2.67	ug/kg wet	1	533	 100	45-129%	 	
Benzo(b)fluoranthene	513	 2.67	ug/kg wet	1	533	 96	45-132%	 	
Benzo(k)fluoranthene	538	 2.67	ug/kg wet	1	533	 101	47-132%	 	
Benzo(g,h,i)perylene	493	 2.67	ug/kg wet	1	533	 92	43-134%	 	
Chrysene	520	 2.67	ug/kg wet	1	533	 97	50-124%	 	

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This

analytical report must be reproduced in its entirety.

Apex Laboratories

Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject NumberM0496.02.003Project ManagerJacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		Polya	romatic Hy	drocarbo	ns (PAHs) by EPA	8270E (S	SIM)				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0217 - EPA 3546							Soi	I				
LCS (23G0217-BS1)			Preparec	1: 07/10/23 (9:49 Ana	lyzed: 07/10	/23 15:05					
Dibenz(a,h)anthracene	544		2.67	ug/kg we	et 1	533		102	45-134%			
Fluoranthene	503		2.67	ug/kg we	et 1	533		94	50-127%			
Fluorene	520		2.67	ug/kg we	et 1	533		97	43-125%			
Indeno(1,2,3-cd)pyrene	528		2.67	ug/kg we	et 1	533		99	45-133%			
1-Methylnaphthalene	506		2.67	ug/kg we	et 1	533		95	40-120%			
2-Methylnaphthalene	502		2.67	ug/kg we	et 1	533		94	38-122%			
Naphthalene	487		2.67	ug/kg we	et 1	533		91	35-123%			
Phenanthrene	511		2.67	ug/kg we	et 1	533		96	50-121%			
Pyrene	496		2.67	ug/kg we	et 1	533		93	47-127%			
Dibenzofuran	530		2.67	ug/kg we	et 1	533		99	44-120%			
Surr: 2-Fluorobiphenyl (Surr)		Rec	overy: 96%	Limits: 44	-120 %	Dilt	ution: 1x					
p-Terphenyl-d14 (Surr)			105 %	54-	-127 %		"					
QC Source Sample: Non-SDG (A	A3F1641-01)					-						
Acenaphthene	ND		108	ug/kg dr	y 40		151			***	30%	Q-0
Acenaphthylene	ND		108	ug/kg dr	y 40		310			***	30%	Q-0
Anthracene	ND		108	ug/kg dr	y 40		544			***	30%	Q-0
Benz(a)anthracene	ND		108	ug/kg dr	y 40		1200			***	30%	Q-0
Benzo(a)pyrene	ND		108	ug/kg dr	y 40		2020			***	30%	Q-0
Benzo(b)fluoranthene	ND		108	ug/kg dr	y 40		1760			***	30%	Q-0
Benzo(k)fluoranthene	ND		108	ug/kg dr	y 40		521			***	30%	Q-0
Benzo(g,h,i)perylene	ND		108	ug/kg dr	y 40		2120			***	30%	Q-0
Chrysene	ND		108	ug/kg dr	y 40		1710			***	30%	Q-0
Dibenz(a,h)anthracene	ND		108	ug/kg dr	y 40		155			***	30%	Q-0
Fluoranthene	ND		108	ug/kg dr	y 40		4260			***	30%	Q-0
Fluorene	ND		108	ug/kg dr	y 40		255			***	30%	Q-0
Indeno(1,2,3-cd)pyrene	ND		108	ug/kg dr	y 40		1770			***	30%	Q-0
1-Methylnaphthalene	ND		108	ug/kg dr	y 40		168			***	30%	Q-0
2-Methylnaphthalene	ND		108	ug/kg dr	y 40		158			***	30%	Q-0
Naphthalene	ND		108	ug/kg dr	y 40		112			***	30%	Q-0
Phenanthrene	ND		108	ug/kg dr	y 40		3110			***	30%	Q-0
Pyrene	132		108	ug/kg dr	y 40		5650			191	30%	Q-0
Dibenzofuran	ND		108	ug/kg dr	y 40		ND				30%	

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Philip Nevenberg

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: **M0496.02.003**

Blue Heron Paper Mill

Project:

Project Manager: Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		Polyar	omatic Hy	drocarbor	is (PAHs) by EPA	8270E (S	SIM)				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0217 - EPA 3546							So	il				
Duplicate (23G0217-DUP1)			Preparec	1: 07/10/23 0	9:49 Ana	lyzed: 07/10	/23 16:47					ТЕМР
QC Source Sample: Non-SDG (A3)	F1641-01)											
Surr: 2-Fluorobiphenyl (Surr) p-Terphenyl-d14 (Surr)		Reco	overy: 90 % 96 %	Limits: 44- 54-	120 % 127 %	Dil	ution: 40x "					S-05 S-05
Matrix Spike (23G0217-MS1)			Prepared	l: 07/10/23 0	9:49 Ana	lyzed: 07/10	/23 15:56					ТЕМР
QC Source Sample: Non-SDG (A3)	<u>51641-04)</u>											
<u>EPA 8270E SIM</u>												
Acenaphthene	430		28.0	ug/kg dry	10	560	ND	77	40-123%			
Acenaphthylene	407		28.0	ug/kg dry	10	560	ND	73	32-132%			
Anthracene	411		28.0	ug/kg dry	10	560	ND	73	47-123%			
Benz(a)anthracene	412		28.0	ug/kg dry	10	560	ND	74	49-126%			
Benzo(a)pyrene	405		28.0	ug/kg dry	10	560	ND	72	45-129%			
Benzo(b)fluoranthene	399		28.0	ug/kg dry	10	560	ND	71	45-132%			
Benzo(k)fluoranthene	429		28.0	ug/kg dry	10	560	ND	77	47-132%			
Benzo(g,h,i)perylene	394		28.0	ug/kg dry	10	560	ND	70	43-134%			
Chrysene	427		28.0	ug/kg dry	10	560	ND	76	50-124%			
Dibenz(a,h)anthracene	401		28.0	ug/kg dry	10	560	ND	72	45-134%			
Fluoranthene	396		28.0	ug/kg dry	10	560	ND	71	50-127%			
Fluorene	416		28.0	ug/kg dry	10	560	ND	74	43-125%			
Indeno(1,2,3-cd)pyrene	414		28.0	ug/kg dry	10	560	ND	74	45-133%			
1-Methylnaphthalene	414		28.0	ug/kg dry	10	560	ND	74	40-120%			
2-Methylnaphthalene	415		28.0	ug/kg dry	10	560	ND	74	38-122%			
Naphthalene	401		28.0	ug/kg dry	10	560	ND	72	35-123%			
Phenanthrene	409		28.0	ug/kg dry	10	560	ND	73	50-121%			
Pyrene	390		28.0	ug/kg dry	10	560	ND	70	47-127%			
Dibenzofuran	419		28.0	ug/kg dry	10	560	ND	75	44-120%			
Surr: 2-Fluorobiphenyl (Surr)		Reco	overy: 70 %	Limits: 44-	120 %	Dil	ution: 10x					
p-Terphenyl-d14 (Surr)			77 %	54-	127 %		"					

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

Project:

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

<u></u>												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							Soi					
Blank (23G0058-BLK2)			Prepared	: 07/05/23 13	3:04 Anal	yzed: 07/05/	23 19:54					
EPA 8270E												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1							
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1							
Anthracene	ND	1.33	2.67	ug/kg wet	1							
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1							
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1							
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1							
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1							
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1							
Chrysene	ND	1.33	2.67	ug/kg wet	1							
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1							
Fluoranthene	ND	1.33	2.67	ug/kg wet	1							
Fluorene	ND	1.33	2.67	ug/kg wet	1							
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1							
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1							
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1							
Naphthalene	ND	2.67	5.33	ug/kg wet	1							
Phenanthrene	ND	1.33	2.67	ug/kg wet	1							
Pyrene	ND	1.33	2.67	ug/kg wet	1							
Carbazole	ND	2.00	4.00	ug/kg wet	1							
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1							
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1							
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1							
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1							
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1							
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1							
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1							
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1							
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1							
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1							
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1							
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1							
Phenol	ND	2.67	5.33	ug/kg wet	1							
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1							

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

Project:

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile	Organic Co	mpoun	ds by EP/	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units I	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							Soi					
Blank (23G0058-BLK2)			Prepared	: 07/05/23 13:	:04 Anal	yzed: 07/05/	/23 19:54					
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1							
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1							
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1							
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1							
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1							
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1							
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1							
Di-n-butylphthalate	ND	13.3	26.7	ug/kg wet	1							
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1							
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1							
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1							
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1							
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1							
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1							
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1							
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1							
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1							
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1							
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1							
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1							
1.2.4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1							
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1							
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1							
Aniline	ND	6.67	13.3	ug/kg wet	1							
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1							
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1							
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1							
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1							
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1							
2.4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1							
2.6-Dinitrotoluene	ND	13.3	26.7	ug/kø wet	1							
Benzoic acid	ND	167	333	uø/kø wet	1							
Benzyl alcohol	ND	6.67	13.3	ug/kø wet	1							
Isonhorone	ND	3.33	6.67	uø/kø wet	1							
Isophorone	110	5.55	0.07	aging wet	1					-		

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Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

Project:

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile	Organic (Compoun	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							Soi	1				
Blank (23G0058-BLK2)			Prepared	1: 07/05/23 1	3:04 Anal	yzed: 07/05/	/23 19:54					
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg we	rt 1							
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg we	et 1							
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg we	et 1							Q-5
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg we	et 1							
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg we	et 1							
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg we	et 1							
Pyridine	ND	6.67	13.3	ug/kg we	et 1							
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg we	et 1							
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg we	et 1							
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg we	et 1							
Surr: Nitrobenzene-d5 (Surr)		Reco	overy: 90 %	Limits: 37-	-122 %	Dilı	ution: 1x					
2-Fluorobiphenyl (Surr)			91 %	44-	-120 %		"					
Phenol-d6 (Surr)			83 %	33-	-122 %		"					
p-Terphenyl-d14 (Surr)			92 %	54-	-127 %		"					
2-Fluorophenol (Surr)			85 %	35-	-120 %		"					
2,4,6-Tribromophenol (Surr)			88 %	39.	-132 %		"					
LCS (23G0058-BS2)			Prepared	1: 07/05/23 1	3:04 Anal	yzed: 07/05/	/23 20:27					
EPA 8270E												
Acenaphthene	509	5.32	10.7	ug/kg we	et 4	533		95	40-123%			
Acenaphthylene	518	5.32	10.7	ug/kg we	et 4	533		97	32-132%			
Anthracene	527	5.32	10.7	ug/kg we	et 4	533		99	47-123%			
Benz(a)anthracene	500	5.32	10.7	ug/kg we	et 4	533		94	49-126%			
Benzo(a)pyrene	530	8.00	16.0	ug/kg we	et 4	533		99	45-129%			
Benzo(b)fluoranthene	562	8.00	16.0	ug/kg we	et 4	533		105	45-132%			
Benzo(k)fluoranthene	589	8.00	16.0	ug/kg we	et 4	533		110	47-132%			
Benzo(g,h,i)perylene	500	5.32	10.7	ug/kg we	et 4	533		94	43-134%			
Chrysene	491	5.32	10.7	ug/kg we	et 4	533		92	50-124%			
Dibenz(a,h)anthracene	499	5.32	10.7	ug/kg we	et 4	533		94	45-134%			
Fluoranthene	531	5.32	10.7	ug/kg we	et 4	533		100	50-127%			
Fluorene	499	5.32	10.7	ug/kg we	st 4	533		94	43-125%			
Indeno(1,2,3-cd)pvrene	455	5.32	10.7	ug/kg we	st 4	533		85	45-133%			
1-Methylnaphthalene	470	10.7	21.3	ug/ko we	t 4	533		88	40-120%			
2-Methylnanhthalene	507	10.7	21.5	110/ko wa	1 4	533		95	38-122%			

Apex Laboratories

Philip Nevenberg

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

Project:



QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile	Organic C	ompour	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							Soi	I				
LCS (23G0058-BS2)			Prepared	: 07/05/23 1	3:04 Ana	yzed: 07/05	/23 20:27					
Naphthalene	496	10.7	21.3	ug/kg wet	t 4	533		93	35-123%			
Phenanthrene	505	5.32	10.7	ug/kg wet	t 4	533		95	50-121%			
Pyrene	531	5.32	10.7	ug/kg wet	t 4	533		100	47-127%			
Carbazole	504	8.00	16.0	ug/kg wet	t 4	533		94	50-123%			
Dibenzofuran	531	5.32	10.7	ug/kg wet	t 4	533		100	44-120%			
2-Chlorophenol	509	26.7	53.2	ug/kg wet	t 4	533		95	34-121%			
4-Chloro-3-methylphenol	519	53.2	107	ug/kg wet	t 4	533		97	45-122%			
2,4-Dichlorophenol	550	26.7	53.2	ug/kg wet	t 4	533		103	40-122%			
2,4-Dimethylphenol	626	26.7	53.2	ug/kg wet	t 4	533		117	30-127%			
2,4-Dinitrophenol	438	133	267	ug/kg wet	t 4	533		82	10-137%			
4,6-Dinitro-2-methylphenol	512	133	267	ug/kg wet	t 4	533		96	29-132%			
2-Methylphenol	527	13.3	26.7	ug/kg wet	t 4	533		99	32-122%			
3+4-Methylphenol(s)	521	13.3	26.7	ug/kg wet	t 4	533		98	34-120%			
2-Nitrophenol	551	53.2	107	ug/kg wet	t 4	533		103	36-123%			
4-Nitrophenol	468	53.2	107	ug/kg wet	t 4	533		88	30-132%			
Pentachlorophenol (PCP)	446	53.2	107	ug/kg wet	t 4	533		84	25-133%			
Phenol	520	10.7	21.3	ug/kg wet	t 4	533		98	34-121%			
2,3,4,6-Tetrachlorophenol	505	26.7	53.2	ug/kg wet	t 4	533		95	44-125%			
2,3,5,6-Tetrachlorophenol	517	26.7	53.2	ug/kg wet	t 4	533		97	40-120%			
2,4,5-Trichlorophenol	555	26.7	53.2	ug/kg wet	t 4	533		104	41-124%			
2,4,6-Trichlorophenol	518	26.7	53.2	ug/kg wet	t 4	533		97	39-126%			
Bis(2-ethylhexyl)phthalate	525	80.0	160	ug/kg wet	t 4	533		98	51-133%			
Butyl benzyl phthalate	535	53.2	107	ug/kg wet	t 4	533		100	48-132%			
Diethylphthalate	529	53.2	107	ug/kg wet	t 4	533		99	50-124%			
Dimethylphthalate	514	53.2	107	ug/kg wet	t 4	533		96	48-124%			
Di-n-butylphthalate	558	53.2	107	ug/kg wet	t 4	533		105	51-128%			
Di-n-octyl phthalate	579	53.2	107	ug/kg wet	t 4	533		109	45-140%			
N-Nitrosodimethylamine	455	13.3	26.7	ug/kg wet	t 4	533		85	23-120%			
N-Nitroso-di-n-propylamine	468	13.3	26.7	ug/kg wet	t 4	533		88	36-120%			
N-Nitrosodiphenylamine	498	13.3	26.7	ug/kg wet	t 4	533		93	38-127%			
Bis(2-Chloroethoxy) methane	526	13.3	26.7	ug/kg wet	t 4	533		99	36-121%			
Bis(2-Chloroethyl) ether	444	13.3	26.7	ug/kg wet	t 4	533		83	31-120%			
2,2'-Oxybis(1-Chloropropane)	489	13.3	26.7	ug/kg wet	t 4	533		92	39-120%			
Hexachlorobenzene	473	5.32	10.7	ug/kg wet	t 4	533		89	45-122%			

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

Project:



QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							So	il				
LCS (23G0058-BS2)			Prepared	1: 07/05/23 1	3:04 Ana	lyzed: 07/05/	/23 20:27					
Hexachlorobutadiene	484	13.3	26.7	ug/kg we	t 4	533		91	32-123%			
Hexachlorocyclopentadiene	578	26.7	53.2	ug/kg we	t 4	533		108	10-140%			
Hexachloroethane	482	13.3	26.7	ug/kg we	t 4	533		90	28-120%			
2-Chloronaphthalene	571	5.32	10.7	ug/kg we	t 4	533		107	41-120%			
1,2,4-Trichlorobenzene	494	13.3	26.7	ug/kg we	t 4	533		93	34-120%			
4-Bromophenyl phenyl ether	526	13.3	26.7	ug/kg we	t 4	533		99	46-124%			
4-Chlorophenyl phenyl ether	514	13.3	26.7	ug/kg we	t 4	533		96	45-121%			
Aniline	383	26.7	53.2	ug/kg we	t 4	533		72	10-120%			
4-Chloroaniline	377	13.3	26.7	ug/kg we	t 4	533		71	17-120%			
2-Nitroaniline	551	107	213	ug/kg we	t 4	533		103	44-127%			
3-Nitroaniline	460	107	213	ug/kg we	t 4	533		86	33-120%			
4-Nitroaniline	454	107	213	ug/kg we	t 4	533		85	51-125%			
Nitrobenzene	487	53.2	107	ug/kg we	t 4	533		91	34-122%			
2,4-Dinitrotoluene	529	53.2	107	ug/kg we	t 4	533		99	48-126%			
2,6-Dinitrotoluene	527	53.2	107	ug/kg we	t 4	533		99	46-124%			
Benzoic acid	860	668	668	ug/kg we	t 4	1070		81	10-140%			
Benzyl alcohol	478	26.7	53.2	ug/kg we	t 4	533		90	29-122%			
Isophorone	476	13.3	26.7	ug/kg we	t 4	533		89	30-122%			
Azobenzene (1,2-DPH)	552	13.3	26.7	ug/kg we	t 4	533		104	39-125%			
Bis(2-Ethylhexyl) adipate	557	133	267	ug/kg we	t 4	533		104	61-121%			
3,3'-Dichlorobenzidine	2130	107	213	ug/kg we	t 4	1070		200	22-121%			Q-29, Q-3 Q-4
1,2-Dinitrobenzene	531	133	267	ug/kg we	t 4	533		100	44-120%			
1,3-Dinitrobenzene	514	133	267	ug/kg we	t 4	533		96	43-127%			
1,4-Dinitrobenzene	529	133	267	ug/kg we	t 4	533		99	37-132%			
Pyridine	411	26.7	53.2	ug/kg we	t 4	533		77	10-120%			
1,2-Dichlorobenzene	488	13.3	26.7	ug/kg we	t 4	533		91	33-120%			
1,3-Dichlorobenzene	482	13.3	26.7	ug/kg we	t 4	533		90	30-120%			
1,4-Dichlorobenzene	481	13.3	26.7	ug/kg we	t 4	533		90	31-120%			
Surr: Nitrobenzene-d5 (Surr)		Reco	overy: 87 %	Limits: 37-	122 %	Dilı	ution: 4x					
2-Fluorobiphenyl (Surr)			102 %	44-	120 %		"					
Phenol-d6 (Surr)			97%	33-	122 %		"					
p-Terphenyl-d14 (Surr)			98 %	54-	127 %		"					
2-Fluorophenol (Surr)			85 %	3.5-	120 %		"					
2 1 6 Tribromanhanal (Sum)			010/	20	137 %		"					

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

Project:

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile (Organic C	ompour	nds by EP/	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							Soi	il				
Duplicate (23G0058-DUP2)			Prepared	: 07/05/23 1	3:04 Ana	lyzed: 07/05/	/23 21:34					
QC Source Sample: Non-SDG (A3	F1639-02)											
Acenaphthene	ND	2450	2450	ug/kg dry	/ 100		ND				30%	R-0
Acenaphthylene	17400	148	297	ug/kg dry	7 100		16200			7	30%	
Anthracene	8200	148	297	ug/kg dry	7 100		7750			6	30%	
Benz(a)anthracene	3590	148	297	ug/kg dry	7 100		3490			3	30%	
Benzo(a)pyrene	3360	223	446	ug/kg dry	7 100		3190			5	30%	
Benzo(b)fluoranthene	2430	223	446	ug/kg dry	/ 100		2090			15	30%	
Benzo(k)fluoranthene	738	223	446	ug/kg dry	/ 100		905			20	30%	M-0
Benzo(g,h,i)perylene	1150	148	297	ug/kg dry	7 100		1080			7	30%	
Chrysene	3530	148	297	ug/kg dry	/ 100		3420			3	30%	
Dibenz(a,h)anthracene	280	148	297	ug/kg dry	/ 100		267			5	30%	
Fluoranthene	8140	148	297	ug/kg dry	/ 100		7720			5	30%	
Fluorene	9240	148	297	ug/kg dry	/ 100		8500			8	30%	
Indeno(1,2,3-cd)pyrene	1000	148	297	ug/kg dry	/ 100		954			5	30%	
1-Methylnaphthalene	24700	297	594	ug/kg dry	/ 100		23400			6	30%	
2-Methylnaphthalene	32200	297	594	ug/kg dry	7 100		29700			8	30%	
Naphthalene	51900	297	594	ug/kg dry	7 100		48000			8	30%	
Phenanthrene	25300	148	297	ug/kg dry	/ 100		24000			5	30%	
Pyrene	13000	148	297	ug/kg dry	7 100		12500			4	30%	
Carbazole	676	223	446	ug/kg dry	/ 100		600			12	30%	
Dibenzofuran	2280	148	297	ug/kg dry	/ 100		2130			7	30%	
2-Chlorophenol	ND	743	1480	ug/kg dry	/ 100		ND				30%	
4-Chloro-3-methylphenol	ND	1480	2970	ug/kg dry	/ 100		ND				30%	
2,4-Dichlorophenol	ND	743	1480	ug/kg dry	/ 100		ND				30%	
2,4-Dimethylphenol	ND	743	1480	ug/kg dry	/ 100		ND				30%	
2,4-Dinitrophenol	ND	3710	7430	ug/kg dry	/ 100		ND				30%	
4,6-Dinitro-2-methylphenol	ND	3710	7430	ug/kg dry	/ 100		ND				30%	
2-Methylphenol	ND	371	743	ug/kg dry	/ 100		ND				30%	
3+4-Methylphenol(s)	ND	371	743	ug/kg drv	7 100		ND				30%	
2-Nitrophenol	ND	1480	2970	ug/kg drv	7 100		ND				30%	
4-Nitrophenol	ND	3060	3060	ug/kg drv	/ 100		ND				30%	R-0
Pentachlorophenol (PCP)	ND	1480	2970	ug/kg dry	/ 100		ND				30%	
Phenol	ND	297	594	110/ka dry	7 100		ND				30%	

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. **3140 NE Broadway Street**

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

Project:

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile (Organic Co	ompoun	ds by EP/	4 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							Soi	1				
Duplicate (23G0058-DUP2)			Prepared	: 07/05/23 13	:04 Anal	yzed: 07/05/	/23 21:34					
QC Source Sample: Non-SDG (A	<u>3F1639-02)</u>											
2,3,4,6-Tetrachlorophenol	ND	743	1480	ug/kg dry	100		ND				30%	
2,3,5,6-Tetrachlorophenol	ND	743	1480	ug/kg dry	100		ND				30%	
2,4,5-Trichlorophenol	ND	743	1480	ug/kg dry	100		ND				30%	
2,4,6-Trichlorophenol	ND	1480	1480	ug/kg dry	100		ND				30%	
Bis(2-ethylhexyl)phthalate	ND	2230	4460	ug/kg dry	100		ND				30%	
Butyl benzyl phthalate	ND	1480	2970	ug/kg dry	100		ND				30%	
Diethylphthalate	ND	1480	2970	ug/kg dry	100		ND				30%	
Dimethylphthalate	ND	1480	2970	ug/kg dry	100		ND				30%	
Di-n-butylphthalate	ND	1480	2970	ug/kg dry	100		ND				30%	
Di-n-octyl phthalate	ND	1480	2970	ug/kg dry	100		ND				30%	
N-Nitrosodimethylamine	ND	371	743	ug/kg dry	100		ND				30%	
N-Nitroso-di-n-propylamine	ND	371	743	ug/kg dry	100		ND				30%	
N-Nitrosodiphenylamine	ND	2020	2020	ug/kg dry	100		ND				30%	R-0
Bis(2-Chloroethoxy) methane	ND	371	743	ug/kg dry	100		ND				30%	
Bis(2-Chloroethyl) ether	ND	371	743	ug/kg dry	100		ND				30%	
2,2'-Oxybis(1-Chloropropane)	ND	371	743	ug/kg dry	100		ND				30%	
Hexachlorobenzene	ND	148	297	ug/kg dry	100		ND				30%	
Hexachlorobutadiene	ND	371	743	ug/kg dry	100		ND				30%	
Hexachlorocyclopentadiene	ND	743	1480	ug/kg dry	100		ND				30%	
Hexachloroethane	ND	371	743	ug/kg dry	100		ND				30%	
2-Chloronaphthalene	ND	148	297	ug/kg dry	100		ND				30%	
1,2,4-Trichlorobenzene	ND	371	743	ug/kg dry	100		ND				30%	
4-Bromophenyl phenyl ether	ND	371	743	ug/kg dry	100		ND				30%	
4-Chlorophenyl phenyl ether	ND	371	743	ug/kg dry	100		ND				30%	
Aniline	ND	743	1480	ug/kg dry	100		ND				30%	
4-Chloroaniline	ND	743	743	ug/kg dry	100		ND				30%	
2-Nitroaniline	ND	2970	5940	ug/kg dry	100		ND				30%	
3-Nitroaniline	ND	2970	5940	ug/kg dry	100		ND				30%	
4-Nitroaniline	ND	2970	5940	ug/kg dry	100		ND				30%	
Nitrobenzene	ND	1480	2970	ug/kg dry	100		ND				30%	
2,4-Dinitrotoluene	ND	1480	2970	ug/kg dry	100		ND				30%	
2,6-Dinitrotoluene	ND	1480	2970	ug/kg dry	100		ND				30%	
Benzoic acid	ND	18600	37100	ug/kg dry	100		ND				30%	

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile	Organic (Compour	nds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							Soi	il				
Duplicate (23G0058-DUP2)			Prepareo	d: 07/05/23 1	3:04 Ana	lyzed: 07/05	/23 21:34					
QC Source Sample: Non-SDG (A3	F1639-02)											
Benzyl alcohol	ND	743	1480	ug/kg dr	y 100		ND				30%	
Isophorone	ND	371	743	ug/kg dr	y 100		ND				30%	
Azobenzene (1,2-DPH)	ND	371	743	ug/kg dr	y 100		ND				30%	
Bis(2-Ethylhexyl) adipate	ND	3710	7430	ug/kg dr	y 100		ND				30%	
3,3'-Dichlorobenzidine	ND	2970	5940	ug/kg dr	y 100		ND				30%	Q-5
1,2-Dinitrobenzene	ND	3710	7430	ug/kg dr	y 100		ND				30%	
1,3-Dinitrobenzene	ND	3710	7430	ug/kg dr	y 100		ND				30%	
1,4-Dinitrobenzene	ND	3710	7430	ug/kg dr	y 100		ND				30%	
Pyridine	ND	743	1480	ug/kg dr	y 100		ND				30%	
1,2-Dichlorobenzene	ND	371	743	ug/kg dr	y 100		ND				30%	
1,3-Dichlorobenzene	ND	371	743	ug/kg dr	y 100		ND				30%	
1,4-Dichlorobenzene	ND	371	743	ug/kg dr	y 100		ND				30%	
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 66 %	Limits: 37	-122 %	Dili	ution: 100x					S-05
2-Fluorobiphenyl (Surr)			108 %	44-	-120 %		"					S-05
Phenol-d6 (Surr)			74 %	33-	-122 %		"					S-05
p-Terphenyl-d14 (Surr)			96 %	54-	-127 %		"					S-05
2-Fluorophenol (Surr)			52 %	35-	-120 %		"					S-05
2,4,6-Tribromophenol (Surr)			159 %	39.	-132 %		"					S-05
Matrix Spike (23G0058-MS2)			Prepareo	d: 07/05/23 1	3:04 Ana	lyzed: 07/06	/23 12:28					
QC Source Sample: Non-SDG (A3	F1639-05R	E2)										
<u>EPA 8270E</u>						<i></i>		-	10 1000			
Acenaphthene	472	6.04	12.1	ug/kg dr	y 4	605	ND	78	40-123%			
Acenaphthylene	479	6.04	12.1	ug/kg dr	y 4	605	ND	79	32-132%			
Anthracene	485	6.04	12.1	ug/kg dr	y 4	605	ND	80	47-123%			
Benz(a)anthracene	465	6.04	12.1	ug/kg dr	y 4	605	ND	77	49-126%			
Benzo(a)pyrene	452	9.08	18.2	ug/kg dr	y 4	605	ND	75	45-129%			
Benzo(b)fluoranthene	442	9.08	18.2	ug/kg dr	v 4	605	ND	73	45-132%			

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Benzo(k)fluoranthene

Benzo(g,h,i)perylene

Dibenz(a,h)anthracene

Chrysene

Fluoranthene

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442

470

480

469

491

9.08

6.04

6.04

6.04

6.04

18.2

12.1

12.1

12.1

12.1

ug/kg dry

ug/kg dry

ug/kg dry

ug/kg dry

ug/kg dry

4

4

4

4

4

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

73

78

79

78

81

47-132%

43-134%

50-124%

45-134%

50-127%

ND

ND

ND

ND

ND

605

605

605

605

605



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

Project:



QUALITY CONTROL (QC) SAMPLE RESULTS

AnalyeBasedDiscoSpike <th< th=""><th></th><th></th><th>Se</th><th>mivolatile</th><th>Organic C</th><th>ompour</th><th>ids by EP</th><th>A 8270E</th><th></th><th></th><th></th><th></th><th></th></th<>			Se	mivolatile	Organic C	ompour	ids by EP	A 8270E					
Bath 23G008 - EPA 354 Prepared: 07/05/23 13:04 Analyzei: 07/06/23 12:28 Concrea Sample: Non-SDG (AFTIGS)-SEREE Prepared: 07/05/23 13:04 Analyzei: 07/06/23 12:28 Prepared: 07/05/23 13:04 Analyzei: 07/06/23 12:28 Prepare: 0.000 ND 81 43-125%	Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Matrix Spike (23G0858-MS2) prepared: U7/05/23 1/3:04 Analyzed: U7/06/23 1/2:08 OCSaurce Sample: Non-SDG (AFLIG)=USES 605 ND 81 43-125% Fluorent 486 0.04 12.1 ug/kg dry 4 605 ND 81 43-125% 1-Methylanphthalene 448 12.1 24.2 ug/kg dry 4 605 ND 81 40-120% 2-Methylanphthalene 484 12.1 24.2 ug/kg dry 4 605 ND 83 35-123% Methylanphthalene 484 6.04 12.1 ug/kg dry 4 605 ND 83 50-123% Nprene 484 6.04 12.1 ug/kg dry 4 605 ND 83 50-123% Carbacole 0.02 0.03 60.4 ug/kg dry 4 605 ND 83 50-123% <	Batch 23G0058 - EPA 3546							So	il				
Of Source Sample: Non-SDG (AJF163)=05RE2 Fluorenc 489 6.04 12.1 ug/kg dry 4 605 ND 81 43-125% I-Medny(1,2)-solpymen 446 6.04 12.1 ug/kg dry 4 605 ND 81 40-120% 2-Methylnaphthalene 505 12.1 24.2 ug/kg dry 4 605 ND 83 38-122% 2-Methylnaphthalene 484 12.1 ug/kg dry 4 605 ND 80 35-121% Naphthalene 484 6.04 12.1 ug/kg dry 4 605 ND 81 47-127% Orbazole 502 9.08 18.2 ug/kg dry 4 605 ND 81 47-127% Orbazole 500 30.3 60.4 ug/kg dry 4 605 ND 84 34-120%	Matrix Spike (23G0058-MS2)			Prepared	l: 07/05/23 13	3:04 Ana	lyzed: 07/06	/23 12:28					
Fluorene 489 6.04 12.1 ug/kg dry 4 605 ND 81 43-125% Indeno(1,2,3-cd)pyrene 446 6.04 12.1 ug/kg dry 4 605 ND 81 43-125% 2-Methylnaphthalene 505 12.1 24.2 ug/kg dry 4 605 ND 83 38-122% Phenanthrene 484 12.1 24.2 ug/kg dry 4 605 ND 81 47.127% Pprane 488 6.04 12.1 ug/kg dry 4 605 ND 81 47.127% Dichozofuran 478 6.04 121 ug/kg dry 4 605 ND 81 49.121%	QC Source Sample: Non-SDG (A3)	F1639-05R	E2)										
Indemo(12,3-scd)pyrene 446 6.04 12.1 ug/kg dry 4 6.05 ND 74 45-133% 1-Methylnaphthalene 488 12.1 24.2 ug/kg dry 4 605 ND 81 40-120% Naphthalene 484 12.1 24.2 ug/kg dry 4 605 ND 80 35-123% Prenathrene 484 6.04 12.1 ug/kg dry 4 605 ND 80 35-123% Pyrene 488 6.04 12.1 ug/kg dry 4 605 ND 83 50-123% Carbazole 502 9.08 18.2 ug/kg dry 4 605 ND 83 50-123% 2-Chlorophenol 502 9.08 18.2 ug/kg dry 4 605 ND 83 30-127% <t< td=""><td>Fluorene</td><td>489</td><td>6.04</td><td>12.1</td><td>ug/kg dry</td><td>4</td><td>605</td><td>ND</td><td>81</td><td>43-125%</td><td></td><td></td><td></td></t<>	Fluorene	489	6.04	12.1	ug/kg dry	4	605	ND	81	43-125%			
1-Methylnaphthalene 488 1.2.1 24.2 ug/kg dry 4 605 ND 8.1 40-120% 2-Methylnaphthalene 505 12.1 24.2 ug/kg dry 4 605 ND 8.3 38-122% Naphthalene 484 6.04 12.1 ug/kg dry 4 605 ND 8.1 47-127% Pyrene 488 6.04 12.1 ug/kg dry 4 605 ND 8.1 47-127% Dibenzofuran 478 6.04 12.1 ug/kg dry 4 605 ND 8.4 34-120% 2-Chlorophenol 500 30.3 60.4 ug/kg dry 4 605 ND 83 30-127% 2-4-Dimotrophenol 500 30.3 60.4 ug/kg dry 4 605 ND 83 30-127% 2-4-Dimotrophenol 502 30.3 60.4 ug/kg dry 4 605	Indeno(1,2,3-cd)pyrene	446	6.04	12.1	ug/kg dry	4	605	ND	74	45-133%			
2-Methylpaphthalene 505 12.1 24.2 ug/kg dry 4 605 ND 83 38.122% Naphthalene 484 12.1 24.2 ug/kg dry 4 605 ND 80 35-123% Phenanthrene 484 6.04 12.1 ug/kg dry 4 605 ND 81 47-127% Carbazole 502 9.08 18.2 ug/kg dry 4 605 ND 81 47-127% Dibenzofuran 478 6.04 12.1 ug/kg dry 4 605 ND 84 34-121% 2.4-Dinchylophenol 500 30.3 60.4 ug/kg dry 4 605 ND 83 40-122% 2.4-Dinchylophenol 602 15.1 30.3 ug/kg dry 4 605 ND 83 29.12% 2.4-Dinchylophenol 502 15.1 30.3 ug/kg dry 4 605 <td< td=""><td>1-Methylnaphthalene</td><td>488</td><td>12.1</td><td>24.2</td><td>ug/kg dry</td><td>4</td><td>605</td><td>ND</td><td>81</td><td>40-120%</td><td></td><td></td><td></td></td<>	1-Methylnaphthalene	488	12.1	24.2	ug/kg dry	4	605	ND	81	40-120%			
Naphthalene 484 12.1 24.2 ug/kg dry 4 605 ND 80 35-123% Phenanthrene 484 6.04 12.1 ug/kg dry 4 605 ND 81 51-123% Pyrene 488 6.04 12.1 ug/kg dry 4 605 ND 81 47-127% Cabazole 502 9.08 18.2 ug/kg dry 4 605 ND 83 47-127% Cabazole 507 30.3 60.4 ug/kg dry 4 605 ND 84 34-121% 2.4-Dichlorophenol 500 30.3 60.4 ug/kg dry 4 605 ND 83 40-122% 2.4-Dichlorophenol 500 30.3 60.4 ug/kg dry 4 605 ND 81 29-132% 2.4-Dichlorophenol 502 15.1 30.3 ug/kg dry 4 605 ND <t< td=""><td>2-Methylnaphthalene</td><td>505</td><td>12.1</td><td>24.2</td><td>ug/kg dry</td><td>4</td><td>605</td><td>ND</td><td>83</td><td>38-122%</td><td></td><td></td><td></td></t<>	2-Methylnaphthalene	505	12.1	24.2	ug/kg dry	4	605	ND	83	38-122%			
Phenanthrene 484 6.04 12.1 ug/kg dry 4 605 10.1 78 50-121% Pyrene 488 6.04 12.1 ug/kg dry 4 605 ND 81 47-12% Carbazole 502 90.8 18.2 ug/kg dry 4 605 ND 83 50-123% Dibbazofuran 476 604 12.1 ug/kg dry 4 605 ND 75 45-12% 2.4-Dinchlorophenol 500 30.3 60.4 ug/kg dry 4 605 ND 83 40-12% 2.4-Dinchlyphenol 602 30.3 60.4 ug/kg dry 4 605 ND 81 29-132% 2.4-Dinthyphenol 490 151 30.3 ug/kg dry 4 605 ND 81 29-132% 2.4	Naphthalene	484	12.1	24.2	ug/kg dry	4	605	ND	80	35-123%			
Pyrene 488 6.04 12.1 ug/kg dry 4 605 ND 81 47-127% Carbazole 502 9.08 18.2 ug/kg dry 4 605 ND 83 50-123% Dibezofuran 478 6.04 12.1 ug/kg dry 4 605 ND 83 50-123% 2-Chlorophenol 500 30.3 60.4 ug/kg dry 4 605 ND 83 40-122% 2.4-Dinicrophenol 200 30.3 60.4 ug/kg dry 4 605 ND 83 40-122% 2.4-Dinicrophenol 212 151 30.3 ug/kg dry 4 605 ND 81 29-132% 2.4-Dinicrophenol 490 151 30.3 ug/kg dry 4 605 ND 81 29-132% 2-	Phenanthrene	484	6.04	12.1	ug/kg dry	4	605	10.1	78	50-121%			
Carbazole 502 9.08 18.2 ug/kg dry 4 605 ND 83 50-123% Dibenzofuran 478 6.04 12.1 ug/kg dry 4 605 ND 79 44-120% 2-Chlorophenol 507 30.3 60.4 ug/kg dry 4 605 ND 84 34.121% 2.4-Dichlorophenol 500 30.3 60.4 ug/kg dry 4 605 ND 83 40.122% 2.4-Dinterthylphenol 620 30.3 60.4 ug/kg dry 4 605 ND 83 20.127% 2.4-Dinterthylphenol 502 15.1 30.3 ug/kg dry 4 605 ND 83 32.127% 2.4-Methylphenol(s) 495 15.1 30.3 ug/kg dry 4 605 ND 82 34.120% 2-Nitrophenol 610 60.4 121 ug/kg dry 4 605	Pyrene	488	6.04	12.1	ug/kg dry	4	605	ND	81	47-127%			
Dibenzofuran4786.0412.1ug/kg dry4605ND7944-120%2-Chlorophenol50730.360.4ug/kg dry4605ND8434-121%4-Chloro-3-methylphenol45160.4121ug/kg dry4605ND8340-122%2,4-Dintorophenol50030.360.4ug/kg dry4605ND8340-122%2,4-Dintorophenol212151151ug/kg dry4605ND8129-132%2,4-Dintorophenol50215.130.3ug/kg dry4605ND8129-132%2,4-Dintorophenol50215.130.3ug/kg dry4605ND8129-132%2,4-Methylphenol(s)49515.130.3ug/kg dry4605ND8130-132%2-Nitrophenol52815.130.3ug/kg dry4605ND6130-132%2-Nitrophenol52812.124.2ug/kg dry4605ND6130-132%2,3,4,6-Tetrachlorophenol43330.360.4ug/kg dry4605ND7244-125%2,4,6-Trichlorophenol48930.360.4ug/kg dry4605 <td< td=""><td>Carbazole</td><td>502</td><td>9.08</td><td>18.2</td><td>ug/kg dry</td><td>4</td><td>605</td><td>ND</td><td>83</td><td>50-123%</td><td></td><td></td><td></td></td<>	Carbazole	502	9.08	18.2	ug/kg dry	4	605	ND	83	50-123%			
2-Chlorophenol50730.360.4ug/kg dry4605ND8434-121%4-Chloro-3-methylphenol45160.4121ug/kg dry4605ND7545-122%2,4-Dichlorophenol50030.360.4ug/kg dry4605ND8340-122%2,4-Dinitrophenol212151151ug/kg dry4605ND1030-127%2,4-Dinitrophenol212151151ug/kg dry4605ND8129-132%2,4-Dinitrophenol50215.130.3ug/kg dry4605ND8129-132%2-Methylphenol(s)49515.130.3ug/kg dry4605ND8234-120%2-Nitrophenol61060.4121ug/kg dry4605ND6130-132%2-Nitrophenol7160.4121ug/kg dry4605ND6130-132%2,3,4,6-Tetrachlorophenol43330.360.4ug/kg dry4605ND6130-132%2,3,5,6-Tetrachlorophenol43330.360.4ug/kg dry4605ND7244-125%2,3,5,6-Tetrachlorophenol43330.360.4ug/kg dry4	Dibenzofuran	478	6.04	12.1	ug/kg dry	4	605	ND	79	44-120%			
4-Chloro-3-methylphenol45160.4121 $ug/kg dry$ 4605ND7545-122%2.4-Dichlorophenol50030.360.4 $ug/kg dry$ 4605ND8340-122%2.4-Dinterlylphenol62030.360.4 $ug/kg dry$ 4605ND8340-122%2.4-Dintrophenol212151151 $ug/kg dry$ 4605ND8129-132%2.4-Dintro-2-methylphenol50215.130.3 $ug/kg dry$ 4605ND8332-122%2-Methylphenol50215.130.3 $ug/kg dry$ 4605ND8332-122%2-Methylphenol(s)49515.130.3 $ug/kg dry$ 4605ND8130-132%2-Nitrophenol61060.4121 $ug/kg dry$ 4605ND6130-132%2.3,4,6-Tetrachlorophenol7160.4121 $ug/kg dry$ 4605ND7244-125%2,3,5,6-Tetrachlorophenol43330.360.4 $ug/kg dry$ 4605ND7439-126%2,3,5,6-Tetrachlorophenol48930.360.4 $ug/kg dry$ 4605ND7441-124%2,4,5-Trichlorophenol48930.3	2-Chlorophenol	507	30.3	60.4	ug/kg dry	4	605	ND	84	34-121%			
2,4-Dichlorophenol50030.360.4ug/kg dry4605ND8340-122%2,4-Dimethylphenol212151151ug/kg dry4605ND10230-127%2,4-Dimitrophenol212151151ug/kg dry4605ND8129-132%4,6-Dinitro-2-methylphenol49015130.3ug/kg dry4605ND8129-132%2-Methylphenol50215.130.3ug/kg dry4605ND8234-120%2-Methylphenol(s)49515.130.3ug/kg dry4605ND8234-120%2-Nitrophenol61060.4121ug/kg dry4605ND6130-132%2-Nitrophenol7160.4121ug/kg dry4605ND8734-121%Pentachlorophenol22812.124.2ug/kg dry4605ND8734-121%2,3,4,6-Tetrachlorophenol43330.360.4ug/kg dry4605ND8141-124%2,3,4,5-Trichlorophenol48930.360.4ug/kg dry4605ND7439-126%2,4,5-Trichlorophenol48060.4121ug/kg dry460	4-Chloro-3-methylphenol	451	60.4	121	ug/kg dry	4	605	ND	75	45-122%			
2,4-Dimethylphenol 620 30.3 60.4 ug/kg dry 4 605 ND 102 30-127% 2,4-Dinitrop-2-methylphenol 212 151 151 ug/kg dry 4 605 ND 35 10-137% 2-Methylphenol 502 15.1 30.3 ug/kg dry 4 605 ND 81 29-132% 2-Methylphenol(s) 495 15.1 30.3 ug/kg dry 4 605 ND 83 32-122% 2-Nitrophenol(s) 495 15.1 30.3 ug/kg dry 4 605 ND 82 34-120% 2-Nitrophenol 610 60.4 121 ug/kg dry 4 605 ND 61 30-132% 2-Nitrophenol 371 60.4 121 ug/kg dry 4 605 ND 61 30-132% 2,3,4,6-Tetrachlorophenol 433 30.3 60.4 ug/kg dry 4	2,4-Dichlorophenol	500	30.3	60.4	ug/kg dry	4	605	ND	83	40-122%			
2,4-Dinitrophenol212151151ug/kg dry4605ND3510-137%4,6-Dinitro-2-methylphenol490151303ug/kg dry4605ND8129-132%2-Methylphenol50215.130.3ug/kg dry4605ND8332-122%3+4-Methylphenol(s)49515.130.3ug/kg dry4605ND8234-120%2-Nitrophenol61060.4121ug/kg dry4605ND6130-132%2-Nitrophenol37160.4121ug/kg dry4605ND4225-133%Pentachlorophenol (PCP)25660.4121ug/kg dry4605ND8734-121%2,3,4,6-Tetrachlorophenol43330.360.4ug/kg dry4605ND7244-125%2,4,5-Trichlorophenol48930.360.4ug/kg dry4605ND7439-126%2,4,6-Trichlorophenol45090.8812ug/kg dry4605ND7439-126%2,4,6-Trichlorophenol45090.8812ug/kg dry4605ND7439-126%2,4,6-Trichlorophenol45090.8812ug/kg dry4<	2,4-Dimethylphenol	620	30.3	60.4	ug/kg dry	4	605	ND	102	30-127%			
4,6-Dinitro-2-methylphenol490151303ug/kg dry4605ND8129-132%2-Methylphenol50215.130.3ug/kg dry4605ND8332-122%3+4-Methylphenol(s)49515.130.3ug/kg dry4605ND8234-120%2-Nitrophenol61060.4121ug/kg dry4605ND6130-132%4-Nitrophenol37160.4121ug/kg dry4605ND6130-132%Pentachlorophenol (PCP)25660.4121ug/kg dry4605ND8734-121%2,3,4,6-Tetrachlorophenol43330.360.4ug/kg dry4605ND6740-120%2,4,5-Trichlorophenol48930.360.4ug/kg dry4605ND7439-126%2,4,6-Trichlorophenol48930.360.4ug/kg dry4605ND7439-126%2,4,6-Trichlorophenol48060.4121ug/kg dry4605ND7451-133%2,4,6-Trichlorophenol48060.4121ug/kg dry4605ND7451-133%2,4,6-Trichlorophenol48060.4121ug/kg dry	2,4-Dinitrophenol	212	151	151	ug/kg dry	4	605	ND	35	10-137%			
2-Methylphenol50215.130.3 $ug/kg dry$ 4605ND83 32.122% 3+4-Methylphenol(s)49515.130.3 $ug/kg dry$ 4605ND82 34.120% 2-Nitrophenol61060.4121 $ug/kg dry$ 4605ND101 36.123% 4-Nitrophenol37160.4121 $ug/kg dry$ 4605ND61 30.132% Pentachlorophenol (PCP)25660.4121 $ug/kg dry$ 4605ND87 34.121% 2,3,4,6-Tetrachlorophenol43330.360.4 $ug/kg dry$ 4605ND72 44.125% 2,4,5-Trichlorophenol40730.360.4 $ug/kg dry$ 4605ND74 39.126% 2,4,6-Trichlorophenol48930.360.4 $ug/kg dry$ 4605ND74 39.126% 2,4,6-Trichlorophenol48930.360.4 $ug/kg dry$ 4605ND74 39.126% 2,4,6-Trichlorophenol48060.4121 $ug/kg dry$ 4605ND74 51.133% 2,4,6-Trichlorophenol48060.4121 $ug/kg dry$ 4605ND74 51.133% Big(2-ethylhexl)phthalate480 </td <td>4,6-Dinitro-2-methylphenol</td> <td>490</td> <td>151</td> <td>303</td> <td>ug/kg dry</td> <td>4</td> <td>605</td> <td>ND</td> <td>81</td> <td>29-132%</td> <td></td> <td></td> <td></td>	4,6-Dinitro-2-methylphenol	490	151	303	ug/kg dry	4	605	ND	81	29-132%			
3+4-Methylphenol(s) 495 15.1 30.3 $ug/kg dry$ 4 605 ND 82 $34.120%$ $$ $$ 2 -Nitrophenol 610 60.4 121 $ug/kg dry$ 4 605 ND 101 $36.123%$ $$ $$ 4 -Nitrophenol 371 60.4 121 $ug/kg dry$ 4 605 ND 61 $30-132%$ $$ $$ Pentachlorophenol (PCP) 256 60.4 121 $ug/kg dry$ 4 605 ND 422 $25-133%$ $$ $$ $2,3,4,6$ -Tetrachlorophenol 433 30.3 60.4 $ug/kg dry$ 4 605 ND 72 $44.125%$ $$ $$ $2,3,5,6$ -Tetrachlorophenol 407 30.3 60.4 $ug/kg dry$ 4 605 ND 67 $40-120%$ $$ $$ $2,4,5$ -Trichlorophenol 489 30.3 60.4 $ug/kg dry$ 4 605 ND 81 $41-124%$ $$ $$ $2,4,6$ -Trichlorophenol 450 30.3 60.4 $ug/kg dry$ 4 605 ND 74 $39-126%$ $$ $$ $2,4,6$ -Trichlorophenol 450 90.8 182 $ug/kg dry$ 4 605 ND 74 $51-133%$ $$ $$ $2,4,6$ -Trichlorophenol 450 90.8 182 $ug/kg dry$ 4 605 ND 74 $51-133%$ $$ $$ $2,4,6$ -Trichlorophenol	2-Methylphenol	502	15.1	30.3	ug/kg dry	4	605	ND	83	32-122%			
2-Nitrophenol 610 60.4 121 ug/kg dry 4 605 ND 101 36-123% 4-Nitrophenol 371 60.4 121 ug/kg dry 4 605 ND 61 30-132% Pentachlorophenol (PCP) 256 60.4 121 ug/kg dry 4 605 ND 42 25-133% 2,3,4,6-Tetrachlorophenol 433 30.3 60.4 ug/kg dry 4 605 ND 72 44-125% 2,3,5,6-Tetrachlorophenol 407 30.3 60.4 ug/kg dry 4 605 ND 67 40-120% 2,4,6-Trichlorophenol 489 30.3 60.4 ug/kg dry 4 605 ND 74 39-126% 2,4,6-Trichlorophenol 450 90.8 182 ug/kg dry 4 605 ND 74 51-133% 2,4,6-Trichlorophenol 480 60.4 121 ug/kg dry	3+4-Methylphenol(s)	495	15.1	30.3	ug/kg dry	4	605	ND	82	34-120%			
4-Nitrophenol 371 60.4 121 ug/kg dry 4 605 ND 61 30-132% Pentachlorophenol (PCP) 256 60.4 121 ug/kg dry 4 605 ND 42 25-133% Phenol 528 12.1 24.2 ug/kg dry 4 605 ND 87 34-121% 2,3,4,6-Tetrachlorophenol 433 30.3 60.4 ug/kg dry 4 605 ND 67 40-120% 2,3,5,6-Tetrachlorophenol 407 30.3 60.4 ug/kg dry 4 605 ND 67 40-120% 2,4,6-Trichlorophenol 489 30.3 60.4 ug/kg dry 4 605 ND 74 39-126% 2,4,6-Trichlorophenol 450 90.8 182 ug/kg dry 4 605 ND 74 51-133% Bis(2-ethylhexyl)phthalate 480 60.4 121 ug/kg dry	2-Nitrophenol	610	60.4	121	ug/kg dry	4	605	ND	101	36-123%			
Pentachlorophenol (PCP) 256 60.4 121 $ug/kg dry$ 4 605 ND 42 $25-133\%$ $$ $$ Phenol 528 12.1 24.2 $ug/kg dry$ 4 605 ND 87 $34\cdot121\%$ $$ $$ $2,3,4,6$ -Tetrachlorophenol 433 30.3 60.4 $ug/kg dry$ 4 605 ND 72 $44\cdot125\%$ $$ $$ $2,3,5,6$ -Tetrachlorophenol 407 30.3 60.4 $ug/kg dry$ 4 605 ND 67 $40\cdot120\%$ $$ $$ $2,4,5$ -Trichlorophenol 489 30.3 60.4 $ug/kg dry$ 4 605 ND 74 $39\cdot126\%$ $$ $$ $2,4,6$ -Trichlorophenol 450 30.3 60.4 $ug/kg dry$ 4 605 ND 74 $39\cdot126\%$ $$ $$ $2,4,6$ -Trichlorophenol 450 90.8 182 $ug/kg dry$ 4 605 ND 74 $39\cdot126\%$ $$ $$ Bis(2-ethylhexyl)phthalate 480 60.4 121 $ug/kg dry$ 4 605 ND 74 $51\cdot133\%$ $$ $$ Butyl benzyl phthalate 480 60.4 121 $ug/kg dry$ 4 605 ND 79 $48\cdot132\%$ $$ $$ Diethylphthalate 496 60.4 121 $ug/kg dry$ 4 605 ND 82 $48\cdot124\%$ $$ $$ Din-n-butylphthalate 496 <td>4-Nitrophenol</td> <td>371</td> <td>60.4</td> <td>121</td> <td>ug/kg dry</td> <td>4</td> <td>605</td> <td>ND</td> <td>61</td> <td>30-132%</td> <td></td> <td></td> <td></td>	4-Nitrophenol	371	60.4	121	ug/kg dry	4	605	ND	61	30-132%			
Phenol 528 12.1 24.2 $ug/kg dry$ 4 605 ND 87 $34-121\%$ $$ $$ $2,3,4,6$ -Tetrachlorophenol 433 30.3 60.4 $ug/kg dry$ 4 605 ND 72 $44\cdot125\%$ $$ $$ $2,3,5,6$ -Tetrachlorophenol 407 30.3 60.4 $ug/kg dry$ 4 605 ND 67 $40\cdot120\%$ $$ $$ $2,4,5$ -Trichlorophenol 489 30.3 60.4 $ug/kg dry$ 4 605 ND 81 $41\cdot124\%$ $$ $$ $2,4,6$ -Trichlorophenol 450 30.3 60.4 $ug/kg dry$ 4 605 ND 74 $39\cdot126\%$ $$ $$ $2,4,6$ -Trichlorophenol 450 30.3 60.4 $ug/kg dry$ 4 605 ND 74 $39\cdot126\%$ $$ $$ $Bis(2-ethylhexyl)phthalate45090.8182ug/kg dry4605ND7451\cdot133\%Butyl benzyl phthalate48060.4121ug/kg dry4605ND7948\cdot132\%Diethylphthalate49660.4121ug/kg dry4605ND8248\cdot124\%Din-butylphthalate49660.4121ug/kg dry4605ND8251\cdot128\%Di-n-octyl phthalate419$	Pentachlorophenol (PCP)	256	60.4	121	ug/kg dry	4	605	ND	42	25-133%			
2,3,4,6-Tetrachlorophenol43330.3 60.4 $ug/kg dry$ 4 605 ND 72 $44-125\%$ $$ $$ 2,3,5,6-Tetrachlorophenol40730.3 60.4 $ug/kg dry$ 4 605 ND 67 $40-120\%$ $$ $$ 2,4,5-Trichlorophenol48930.3 60.4 $ug/kg dry$ 4 605 ND 81 $41-124\%$ $$ $$ 2,4,6-Trichlorophenol45030.3 60.4 $ug/kg dry$ 4 605 ND 74 $39-126\%$ $$ $$ Bis(2-ethylhexyl)phthalate45090.8182 $ug/kg dry$ 4 605 ND 74 $51-133\%$ $$ $$ Butyl benzyl phthalate480 60.4 121 $ug/kg dry$ 4 605 ND 79 $48-132\%$ $$ $$ Diethylphthalate495 60.4 121 $ug/kg dry$ 4 605 ND 79 $50-124\%$ $$ $$ Di-n-butylphthalate496 60.4 121 $ug/kg dry$ 4 605 ND 82 $48-124\%$ $$ $$ Di-n-butylphthalate496 60.4 121 $ug/kg dry$ 4 605 ND 82 $51-128\%$ $$ $$ Di-n-butylphthalate496 60.4 121 $ug/kg dry$ 4 605 ND 69 $45-140\%$ $$ $$ N-Nitrosodimethylamine39815.1 30.3 $ug/kg dry$ 4 60	Phenol	528	12.1	24.2	ug/kg dry	4	605	ND	87	34-121%			
2,3,5,6-Tetrachlorophenol407 30.3 60.4 $ug/kg dry$ 4 605 ND 67 $40-120\%$ $$ $$ 2,4,5-Trichlorophenol489 30.3 60.4 $ug/kg dry$ 4 605 ND 81 $41-124\%$ $$ $$ 2,4,6-Trichlorophenol450 30.3 60.4 $ug/kg dry$ 4 605 ND 74 $39-126\%$ $$ $$ Bis(2-ethylhexyl)phthalate450 90.8 182 $ug/kg dry$ 4 605 ND 74 $51-133\%$ $$ $$ Butyl benzyl phthalate480 60.4 121 $ug/kg dry$ 4 605 ND 79 $48-132\%$ $$ $$ Diethylphthalate480 60.4 121 $ug/kg dry$ 4 605 ND 79 $50-124\%$ $$ $$ Diethylphthalate495 60.4 121 $ug/kg dry$ 4 605 ND 82 $48-124\%$ $$ $$ Di-n-butylphthalate496 60.4 121 $ug/kg dry$ 4 605 ND 82 $51-128\%$ $$ $$ Di-n-octyl phthalate419 60.4 121 $ug/kg dry$ 4 605 ND 69 $45-140\%$ $$ $$ N-Nitrosodimethylamine 398 15.1 30.3 $ug/kg dry$ 4 605 ND 66 $23-120\%$ $$ $$ N-Nitroso-di-n-propylamine 466 15.1	2,3,4,6-Tetrachlorophenol	433	30.3	60.4	ug/kg dry	4	605	ND	72	44-125%			
2,4,5-Trichlorophenol489 30.3 60.4 $ug/kg dry$ 4 605 ND 81 $41-124\%$ $$ $$ 2,4,6-Trichlorophenol450 30.3 60.4 $ug/kg dry$ 4 605 ND 74 $39-126\%$ $$ $$ Bis(2-ethylhexyl)phthalate450 90.8 182 $ug/kg dry$ 4 605 ND 74 $51-133\%$ $$ $$ Butyl benzyl phthalate480 60.4 121 $ug/kg dry$ 4 605 ND 79 $48-132\%$ $$ $$ Diethylphthalate480 60.4 121 $ug/kg dry$ 4 605 ND 79 $50-124\%$ $$ $$ Dimethylphthalate495 60.4 121 $ug/kg dry$ 4 605 ND 82 $48-124\%$ $$ $$ Din-butylphthalate496 60.4 121 $ug/kg dry$ 4 605 ND 82 $51-128\%$ $$ $$ Di-n-butylphthalate496 60.4 121 $ug/kg dry$ 4 605 ND 82 $51-128\%$ $$ $$ Di-n-octyl phthalate419 60.4 121 $ug/kg dry$ 4 605 ND 69 $45-140\%$ $$ $$ N-Nitrosodimethylamine 398 15.1 30.3 $ug/kg dry$ 4 605 ND 66 $23-120\%$ $$ $$ N-Nitroso-di-n-propylamine 466 15.1 30.3 $ug/kg dry$ </td <td>2,3,5,6-Tetrachlorophenol</td> <td>407</td> <td>30.3</td> <td>60.4</td> <td>ug/kg dry</td> <td>4</td> <td>605</td> <td>ND</td> <td>67</td> <td>40-120%</td> <td></td> <td></td> <td></td>	2,3,5,6-Tetrachlorophenol	407	30.3	60.4	ug/kg dry	4	605	ND	67	40-120%			
2,4,6-Trichlorophenol450 30.3 60.4 $ug/kg dry$ 4 605 ND 74 $39-126\%$ $$ $$ Bis(2-ethylhexyl)phthalate45090.8 182 $ug/kg dry$ 4 605 ND 74 $51-133\%$ $$ $$ Butyl benzyl phthalate480 60.4 121 $ug/kg dry$ 4 605 ND 79 $48-132\%$ $$ $$ Diethylphthalate480 60.4 121 $ug/kg dry$ 4 605 ND 79 $50-124\%$ $$ $$ Dimethylphthalate495 60.4 121 $ug/kg dry$ 4 605 ND 82 $48-124\%$ $$ $$ Di-n-butylphthalate496 60.4 121 $ug/kg dry$ 4 605 ND 82 $51-128\%$ $$ $$ Di-n-octyl phthalate419 60.4 121 $ug/kg dry$ 4 605 ND 69 $45-140\%$ $$ $$ N-Nitrosodimethylamine39815.1 30.3 $ug/kg dry$ 4 605 ND 66 $23-120\%$ $$ $$ N-Nitroso-di-n-propylamine 466 15.1 30.3 $ug/kg dry$ 4 605 ND 77 $36-120\%$ $$ $$	2,4,5-Trichlorophenol	489	30.3	60.4	ug/kg dry	4	605	ND	81	41-124%			
Bis(2-ethylhexyl)phthalate45090.8182ug/kg dry4605ND74 $51-133\%$ Butyl benzyl phthalate48060.4121ug/kg dry4605ND7948-132%Diethylphthalate48060.4121ug/kg dry4605ND79 $50-124\%$ Diethylphthalate49560.4121ug/kg dry4605ND82 $48-124\%$ Di-n-butylphthalate49660.4121ug/kg dry4605ND82 $51-128\%$ Di-n-butylphthalate49660.4121ug/kg dry4605ND69 $45-140\%$ Di-n-octyl phthalate41960.4121ug/kg dry4605ND69 $45-140\%$ N-Nitrosodimethylamine39815.130.3ug/kg dry4605ND6623-120\%N-Nitroso-di-n-propylamine46615.130.3ug/kg dry4605ND7736-120\%	2,4,6-Trichlorophenol	450	30.3	60.4	ug/kg dry	4	605	ND	74	39-126%			
Butyl benzyl phthalate480 60.4 121 $ug/kg dry$ 4 605 ND 79 $48-132\%$ $$ $$ Diethylphthalate480 60.4 121 $ug/kg dry$ 4 605 ND 79 $50-124\%$ $$ $$ Dimethylphthalate495 60.4 121 $ug/kg dry$ 4 605 ND 82 $48-124\%$ $$ $$ Di-n-butylphthalate496 60.4 121 $ug/kg dry$ 4 605 ND 82 $51-128\%$ $$ $$ Di-n-octyl phthalate419 60.4 121 $ug/kg dry$ 4 605 ND 69 $45-140\%$ $$ $$ N-Nitrosodimethylamine39815.1 30.3 $ug/kg dry$ 4 605 ND 66 $23-120\%$ $$ $$ N-Nitroso-di-n-propylamine46615.1 30.3 $ug/kg dry$ 4 605 ND 77 $36-120\%$ $$ $$	Bis(2-ethylhexyl)phthalate	450	90.8	182	ug/kg dry	4	605	ND	74	51-133%			
Diethylphthalate480 60.4 121 $ug/kg dry$ 4 605 ND 79 $50-124\%$ $$ $$ Dimethylphthalate495 60.4 121 $ug/kg dry$ 4 605 ND 82 $48-124\%$ $$ $$ Di-n-butylphthalate496 60.4 121 $ug/kg dry$ 4 605 ND 82 $51-128\%$ $$ $$ Di-n-octyl phthalate419 60.4 121 $ug/kg dry$ 4 605 ND 69 $45-140\%$ $$ $$ N-Nitrosodimethylamine39815.1 30.3 $ug/kg dry$ 4 605 ND 66 $23-120\%$ $$ $$ N-Nitroso-di-n-propylamine46615.1 30.3 $ug/kg dry$ 4 605 ND 77 $36-120\%$ $$ $$	Butyl benzyl phthalate	480	60.4	121	ug/kg dry	4	605	ND	79	48-132%			
Dimethylphthalate 495 60.4 121 ug/kg dry 4 605 ND 82 48-124% Di-n-butylphthalate 496 60.4 121 ug/kg dry 4 605 ND 82 51-128% Di-n-octyl phthalate 419 60.4 121 ug/kg dry 4 605 ND 69 45-140% N-Nitrosodimethylamine 398 15.1 30.3 ug/kg dry 4 605 ND 66 23-120% N-Nitroso-di-n-propylamine 466 15.1 30.3 ug/kg dry 4 605 ND 77 36-120%	Diethylphthalate	480	60.4	121	ug/kg dry	4	605	ND	79	50-124%			
Di-n-butylphthalate 496 60.4 121 ug/kg dry 4 605 ND 82 51-128% Di-n-octyl phthalate 419 60.4 121 ug/kg dry 4 605 ND 69 45-140% N-Nitrosodimethylamine 398 15.1 30.3 ug/kg dry 4 605 ND 66 23-120% N-Nitroso-di-n-propylamine 466 15.1 30.3 ug/kg dry 4 605 ND 77 36-120%	Dimethylphthalate	495	60.4	121	ug/kg dry	4	605	ND	82	48-124%			
Di-n-octyl phthalate 419 60.4 121 ug/kg dry 4 605 ND 69 45-140% N-Nitrosodimethylamine 398 15.1 30.3 ug/kg dry 4 605 ND 66 23-120% N-Nitroso-di-n-propylamine 466 15.1 30.3 ug/kg dry 4 605 ND 77 36-120%	Di-n-butylphthalate	496	60.4	121	ug/kg dry	4	605	ND	82	51-128%			
N-Nitrosodimethylamine 398 15.1 30.3 ug/kg dry 4 605 ND 66 23-120% N-Nitroso-di-n-propylamine 466 15.1 30.3 ug/kg dry 4 605 ND 77 36-120%	Di-n-octyl phthalate	419	60.4	121	ug/kg dry	4	605	ND	69	45-140%			
N-Nitroso-di-n-propylamine 466 15.1 30.3 ug/kg dry 4 605 ND 77 36-120%	N-Nitrosodimethylamine	398	15.1	30.3	ug/kg dry	4	605	ND	66	23-120%			
	N-Nitroso-di-n-propylamine	466	15.1	30.3	ug/kg dry	4	605	ND	77	36-120%			

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Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

Project:

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	р ·			0."	<u> </u>		0/ ==		DDC	
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546			. <u> </u>				Soi	1				
Matrix Spike (23G0058-MS2)			Prepared:	07/05/23 13	3:04 Anal	yzed: 07/06/	23 12:28					
QC Source Sample: Non-SDG (A3)	F1639-05RH	<u> </u>										
N-Nitrosodiphenylamine	488	15.1	30.3	ug/kg dry	4	605	ND	81	38-127%			
Bis(2-Chloroethoxy) methane	468	15.1	30.3	ug/kg dry	4	605	ND	77	36-121%			
Bis(2-Chloroethyl) ether	461	15.1	30.3	ug/kg dry	4	605	ND	76	31-120%			
2,2'-Oxybis(1-Chloropropane)	447	15.1	30.3	ug/kg dry	4	605	ND	74	39-120%			
Hexachlorobenzene	531	6.04	12.1	ug/kg dry	4	605	ND	88	45-122%			
Hexachlorobutadiene	510	15.1	30.3	ug/kg dry	4	605	ND	84	32-123%			
Hexachlorocyclopentadiene	395	30.3	60.4	ug/kg dry	4	605	ND	65	10-140%			Q-3
Hexachloroethane	450	15.1	30.3	ug/kg dry	4	605	ND	74	28-120%			
2-Chloronaphthalene	471	6.04	12.1	ug/kg dry	4	605	ND	78	41-120%			
1,2,4-Trichlorobenzene	499	15.1	30.3	ug/kg dry	4	605	ND	82	34-120%			
4-Bromophenyl phenyl ether	533	15.1	30.3	ug/kg dry	4	605	ND	88	46-124%			
4-Chlorophenyl phenyl ether	504	15.1	30.3	ug/kg dry	4	605	ND	83	45-121%			
Aniline	313	30.3	60.4	ug/kg dry	4	605	ND	52	10-120%			Q-3
4-Chloroaniline	327	15.1	30.3	ug/kg dry	4	605	ND	54	17-120%			
2-Nitroaniline	483	121	242	ug/kg dry	4	605	ND	80	44-127%			
3-Nitroaniline	479	121	242	ug/kg dry	4	605	ND	79	33-120%			
4-Nitroaniline	458	121	242	ug/kg dry	4	605	ND	76	51-125%			
Nitrobenzene	476	60.4	121	ug/kg dry	4	605	ND	79	34-122%			
2,4-Dinitrotoluene	496	60.4	121	ug/kg dry	4	605	ND	82	48-126%			
2,6-Dinitrotoluene	484	60.4	121	ug/kg dry	4	605	ND	80	46-124%			
Benzoic acid	ND	758	1510	ug/kg dry	4	1210	ND		10-140%			Q-0
Benzyl alcohol	475	30.3	60.4	ug/kg dry	4	605	ND	78	29-122%			
Isophorone	461	15.1	30.3	ug/kg dry	4	605	ND	76	30-122%			
Azobenzene (1,2-DPH)	458	15.1	30.3	ug/kg dry	4	605	ND	76	39-125%			
Bis(2-Ethylhexyl) adipate	466	151	303	ug/kg dry	4	605	ND	77	61-121%			
3,3'-Dichlorobenzidine	1720	121	242	ug/kg dry	4	1210	ND	142	22-121%			Q-01, Q-31 Q-5
1,2-Dinitrobenzene	483	151	303	ug/kg dry	4	605	ND	80	44-120%			
1,3-Dinitrobenzene	510	151	303	ug/kg dry	4	605	ND	84	43-127%			
1,4-Dinitrobenzene	519	151	303	ug/kg dry	4	605	ND	86	37-132%			
Pyridine	398	30.3	60.4	ug/kg dry	4	605	ND	66	10-120%			
1,2-Dichlorobenzene	468	15.1	30.3	ug/kg dry	4	605	ND	77	33-120%			
1,3-Dichlorobenzene	465	15.1	30.3	ug/kg drv	4	605	ND	77	30-120%			
1,4-Dichlorobenzene	463	15.1	30.3	ug/kg drv	4	605	ND	76	31-120%			

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Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile	Organio	c Compou	nds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							Soil					
Matrix Spike (23G0058-MS2)			Preparec	1: 07/05/2	3 13:04 Ana	alyzed: 07/06	/23 12:28					
QC Source Sample: Non-SDG (A31	F1639-05RH	E <u>2)</u>										
Surr: Nitrobenzene-d5 (Surr)		Reco	wery: 78 %	Limits:	37-122 %	Dilı	ution: 4x					
2-Fluorobiphenyl (Surr)			80 %		44-120 %		"					
Phenol-d6 (Surr)			85 %		33-122 %		"					
p-Terphenyl-d14 (Surr)			92 %		54-127 %		"					
2-Fluorophenol (Surr)			82 %		35-120 %		"					
2,4,6-Tribromophenol (Surr)			101 %		39-132 %		"					Q-41

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Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Project:

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	letals by	EPA 602(B (ICPMS	3)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0050 - EPA 3051A							Soi	<u>il</u>				
Blank (23G0050-BLK1)			Prepared	: 07/05/23 0)6:44 Anal	yzed: 07/05/	/23 20:01					
EPA 6020B												
Arsenic	ND		1.00	mg/kg we	et 10							
Barium	ND		1.00	mg/kg we	et 10							
Cadmium	ND		0.200	mg/kg we	et 10							
Chromium	ND		1.00	mg/kg we	et 10							
Lead	ND		0.200	mg/kg we	et 10							
Mercury	ND		0.0800	mg/kg we	et 10							
Selenium	ND		1.00	mg/kg we	et 10							
Silver	ND		0.200	mg/kg w	et 10							
LCS (23G0050-BS1)			Prepared	: 07/05/23 0)6:44 Anal	yzed: 07/05/	/23 20:06					
EPA 6020B												
Arsenic	48.7		1.00	mg/kg we	et 10	50.0		97	80-120%			
Barium	52.1		1.00	mg/kg we	et 10	50.0		104	80-120%			
Cadmium	48.7		0.200	mg/kg we	et 10	50.0		97	80-120%			
Chromium	49.1		1.00	mg/kg we	et 10	50.0		98	80-120%			
Lead	50.5		0.200	mg/kg we	et 10	50.0		101	80-120%			
Mercury	0.970		0.0800	mg/kg we	et 10	1.00		97	80-120%			
Selenium	24.3		1.00	mg/kg we	et 10	25.0		97	80-120%			
Silver	23.3		0.200	mg/kg w	et 10	25.0		93	80-120%			
Duplicate (23G0050-DUP1)			Prepared	: 07/05/23 0)6:44 Anal	yzed: 07/05/	/23 22:02					
QC Source Sample: Non-SDG (A	<u>3F1508-01)</u>											
Arsenic	5.68		1.13	mg/kg dr	у 10		6.31			11	20%	
Barium	132		1.13	mg/kg dr	у 10		136			3	20%	
Cadmium	ND		0.226	mg/kg dr	у 10		0.138			***	20%	
Chromium	17.6		1.13	mg/kg dr	у 10		18.5			5	20%	
Lead	18.4		0.226	mg/kg dr	у 10		14.0			27	20%	Q-1
Mercury	ND		0.0905	mg/kg dr	у 10		ND				20%	
Selenium	ND		1.13	mg/kg dr	у 10		ND				20%	
Silver	ND		0.226	mg/kg dr	у 10		ND				20%	

Matrix Spike (23G0050-MS1)

Prepared: 07/05/23 06:44 Analyzed: 07/05/23 22:07

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Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)													
Analyte	Result	Detection Limit	Reporting Limit	Units 1	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23G0050 - EPA 3051A							Soi	1					
Matrix Spike (23G0050-MS1)			Prepared:	: 07/05/23 06	5:44 Anal	yzed: 07/05/	/23 22:07						
QC Source Sample: Non-SDG (A3F	1508-01)												
<u>EPA 6020B</u>													
Arsenic	59.3		1.13	mg/kg dry	10	56.7	6.31	93	75-125%				
Barium	193		1.13	mg/kg dry	10	56.7	136	102	75-125%				
Cadmium	52.4		0.227	mg/kg dry	10	56.7	0.138	92	75-125%				
Chromium	71.9		1.13	mg/kg dry	10	56.7	18.5	94	75-125%				
Lead	67.3		0.227	mg/kg dry	10	56.7	14.0	94	75-125%				
Mercury	1.06		0.0907	mg/kg dry	10	1.13	ND	93	75-125%				
Selenium	25.4		1.13	mg/kg dry	10	28.3	ND	89	75-125%				
Silver	25.1		0.227	mg/kg dry	10	28.3	ND	88	75-125%				

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Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	letals by	EPA 6020	B (ICPMS	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0173 - EPA 3051A	N N						Soi	il				
Blank (23G0173-BLK1)			Prepared	: 07/07/23 1	0:31 Ana	yzed: 07/07	/23 20:59					
EPA 6020B												
Arsenic	ND		1.00	mg/kg we	et 10							
Barium	ND		1.00	mg/kg we	et 10							
Cadmium	ND		0.200	mg/kg we	et 10							
Chromium	ND		1.00	mg/kg we	et 10							
Lead	ND		0.200	mg/kg we	et 10							
Mercury	ND		0.0800	mg/kg we	et 10							
Selenium	ND		1.00	mg/kg we	et 10							
Silver	ND		0.200	mg/kg we	et 10							
LCS (23G0173-BS1)			Prepared	: 07/07/23 1	0:31 Ana	yzed: 07/07	/23 21:04					
EPA 6020B												
Arsenic	47.9		1.00	mg/kg we	et 10	50.0		96	80-120%			
Barium	50.7		1.00	mg/kg we	et 10	50.0		101	80-120%			
Cadmium	47.4		0.200	mg/kg we	et 10	50.0		95	80-120%			
Chromium	48.6		1.00	mg/kg we	et 10	50.0		97	80-120%			
Lead	53.5		0.200	mg/kg we	et 10	50.0		107	80-120%			
Mercury	1.07		0.0800	mg/kg we	et 10	1.00		107	80-120%			
Selenium	24.9		1.00	mg/kg we	et 10	25.0		100	80-120%			
Silver	24.7		0.200	mg/kg we	et 10	25.0		99	80-120%			
Duplicate (23G0173-DUP1)			Prepared	: 07/07/23 1	0:31 Ana	yzed: 07/07	/23 21:14					
QC Source Sample: Non-SDG	(A3F1424-15)											
Arsenic	2.55		1.42	mg/kg dr	y 10		1.99			25	20%	Q-0
Barium	318		1.42	mg/kg dr	y 10		316			0.3	20%	
Cadmium	1.14		0.284	mg/kg dr	y 10		0.856			28	20%	Q-0
Chromium	31.4		1.42	mg/kg dr	y 10		31.1			0.9	20%	
Lead	14.5		0.284	mg/kg dr	y 10		14.1			3	20%	
Mercury	ND		0.114	mg/kg dr	y 10		0.0879			***	20%	
Selenium	ND		1.42	mg/kg dr	y 10		ND				20%	
Silver	ND		0.284	mg/kg dr	y 10		0.169			***	20%	

Matrix Spike (23G0173-MS1)

Prepared: 07/07/23 10:31 Analyzed: 07/07/23 21:20

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Philip Nevenberg

Philip Nerenberg, Lab Director

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)														
Analyte	Result	Detection Limit	Reporting Limit	Units 1	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes		
Batch 23G0173 - EPA 3051A	,						Soi	1						
Matrix Spike (23G0173-MS1)			Prepared:	: 07/07/23 10	:31 Anal	yzed: 07/07/	/23 21:20							
QC Source Sample: Non-SDG (A3F	<u>`1424-15)</u>													
<u>EPA 6020B</u>														
Arsenic	74.3		1.49	mg/kg dry	10	74.4	1.99	97	75-125%					
Barium	383		1.49	mg/kg dry	10	74.4	316	90	75-125%					
Cadmium	72.8		0.298	mg/kg dry	10	74.4	0.856	97	75-125%					
Chromium	103		1.49	mg/kg dry	10	74.4	31.1	97	75-125%					
Lead	89.3		0.298	mg/kg dry	10	74.4	14.1	101	75-125%					
Mercury	1.56		0.119	mg/kg dry	10	1.49	0.0879	99	75-125%					
Selenium	37.0		1.49	mg/kg dry	10	37.2	ND	99	75-125%					
Silver	37.2		0.298	mg/kg dry	10	37.2	0.169	99	75-125%					

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Project:

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

			TCLP M	etals by	EPA 602	0B (ICPM	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1141 - EPA 1311/301	I5A						So	il				
Blank (23F1141-BLK1)			Prepared:	06/30/23	11:00 Anal	yzed: 07/03	/23 14:49					
<u>1311/6020B</u>												
Arsenic	ND		0.100	mg/L	10							TCL
Barium	ND		5.00	mg/L	10							TCL
Cadmium	ND		0.100	mg/L	10							TCL
Chromium	ND		0.100	mg/L	10							TCL
Lead	ND		0.0500	mg/L	10							TCL
Mercury	ND		0.00700	mg/L	10							TCL
Selenium	ND		0.100	mg/L	10							TCL
Silver	ND		0.100	mg/L	10							TCL
LCS (23F1141-BS1)			Prepared:	06/30/23	11:00 Anal	yzed: 07/03	/23 14:54					
<u>1311/6020B</u>												
Arsenic	5.04		0.100	mg/L	10	5.00		101	80-120%			TCL
Barium	10.7		5.00	mg/L	10	10.0		107	80-120%			TCL
Cadmium	1.00		0.100	mg/L	10	1.00		100	80-120%			TCL
Chromium	4.93		0.100	mg/L	10	5.00		99	80-120%			TCL
Lead	5.43		0.0500	mg/L	10	5.00		109	80-120%			TCL
Mercury	0.101		0.00700	mg/L	10	0.100		101	80-120%			TCL
Selenium	0.999		0.100	mg/L	10	1.00		100	80-120%			TCL
Duplicate (23F1141-DUP1)			Prepared:	06/30/23	11:00 Anal	yzed: 07/03	/23 15:05					
QC Source Sample: Concrete-062	8 (A3F1614-	.01)										
<u>1311/6020B</u>												
Arsenic	ND		0.100	mg/L	10		ND				20%	
Barium	ND		5.00	mg/L	10		ND				20%	
Cadmium	ND		0.100	mg/L	10		ND				20%	
Chromium	ND		0.100	mg/L	10		ND				20%	
Lead	ND		0.0500	mg/L	10		ND				20%	
Mercury	ND		0.00700	mg/L	10		ND				20%	
Selenium	ND		0.100	mg/L	10		ND				20%	
Silver	ND		0.100	mg/L	10		ND				20%	

Matrix Spike (23F1141-MS1)

Prepared: 06/30/23 11:00 Analyzed: 07/03/23 15:10

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Philip Nevenberg

Philip Nerenberg, Lab Director

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AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23F1141 - EPA 1311/3015	5A						Soi	11					
Matrix Spike (23F1141-MS1)			Prepared:	06/30/23 1	11:00 Anal	yzed: 07/03/	23 15:10						
QC Source Sample: Concrete-0628	(A3F1614-	<u>·01)</u>											
Arsenic	5.14		0.100	mg/L	10	5.00	ND	103	50-150%				
Barium	11.5		5.00	mg/L	10	10.0	ND	115	50-150%				
Cadmium	1.03		0.100	mg/L	10	1.00	ND	103	50-150%				
Chromium	5.02		0.100	mg/L	10	5.00	ND	100	50-150%				
Lead	5.51		0.0500	mg/L	10	5.00	ND	110	50-150%				
Mercury	0.108		0.00700	mg/L	10	0.100	ND	108	50-150%				
Selenium	1.00		0.100	mg/L	10	1.00	ND	100	50-150%				
Silver	0.643		0.100	mg/L	10	1.00	ND	64	50-150%				

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Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

			TCLP N	letals by	/ EPA 602	0B (ICPM	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0113 - EPA 1311/301	5A						Soi	il				
Blank (23G0113-BLK1)			Prepared	l: 07/06/23	09:38 Ana	lyzed: 07/06	5/23 11:48					
<u>1311/6020B</u> Silver	ND		0.100	mg/L	5							TCI
LCS (23G0113-BS2)			Prepared	: 07/06/23	09:38 Ana	lyzed: 07/06	5/23 12:14					
<u>1311/6020B</u> Silver	1.97		0.200	mg/L	10	2.00		99	80-120%	,		Q-16, TCI
Duplicate (23G0113-DUP1)			Prepared	: 07/06/23	09:38 Ana	lyzed: 07/06	5/23 12:03					
QC Source Sample: Concrete-0628	(A3F1614	-01RE1)										
Silver	ND		0.100	mg/L	5		ND				20%	
Matrix Spike (23G0113-MS1)			Prepared	: 07/06/23	09:38 Ana	lyzed: 07/06	5/23 12:08					
OC Source Sample: Concrete-0628 1311/6020B	(A3F1614	<u>-01RE1)</u>										
Silver	2.01		0.200	mg/L	10	2.00	ND	100	50-150%	,		

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Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Blue Heron Paper Mill

QUALITY CONTROL (QC) SAMPLE RESULTS

			TCLP M	etals by	EPA 602	DB (ICPM	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0266 - EPA 1311/30	015A						Soi	il				
Blank (23G0266-BLK1)			Prepared	07/11/23	10:27 Anal	yzed: 07/11/	/23 16:35					
<u>1311/6020B</u>												
Arsenic	ND		0.100	mg/L	10							TCLF
Barium	ND		5.00	mg/L	10							TCLF
Cadmium	ND		0.100	mg/L	10							TCLF
Chromium	ND		0.100	mg/L	10							TCLF
Lead	ND		0.0500	mg/L	10							TCLF
Mercury	ND		0.00700	mg/L	10							TCLF
Selenium	ND		0.100	mg/L	10							TCLF
Silver	ND		0.100	mg/L	10							TCLF
LCS (23G0266-BS1)			Prepared	07/11/23	10:27 Anal	yzed: 07/11/	/23 16:40					
<u>1311/6020B</u>												
Arsenic	5.06		0.100	mg/L	10	5.00		101	80-120%			TCLF
Barium	10.7		5.00	mg/L	10	10.0		107	80-120%			TCLF
Cadmium	0.997		0.100	mg/L	10	1.00		100	80-120%			TCLF
Chromium	4.82		0.100	mg/L	10	5.00		96	80-120%			TCLF
Lead	5.15		0.0500	mg/L	10	5.00		103	80-120%			TCLF
Mercury	0.0999		0.00700	mg/L	10	0.100		100	80-120%			TCLF
Selenium	1.04		0.100	mg/L	10	1.00		104	80-120%			TCLF
Silver	0.962		0.100	mg/L	10	1.00		96	80-120%			TCLF
Duplicate (23G0266-DUP1)			Prepared	07/11/23	10:27 Anal	yzed: 07/11/	/23 16:50					
QC Source Sample: DS-16 (A3F	<u>1614-03)</u>											
<u>1311/6020B</u>												
Arsenic	ND		0.100	mg/L	10		ND				20%	
Barium	ND		5.00	mg/L	10		ND				20%	
Cadmium	ND		0.100	mg/L	10		ND				20%	
Chromium	ND		0.100	mg/L	10		ND				20%	
Lead	ND		0.0500	mg/L	10		ND				20%	
Mercury	ND		0.00700	mg/L	10		ND				20%	
Selenium	ND		0.100	mg/L	10		ND				20%	
Silver	ND		0.100	mg/L	10		ND				20%	

Matrix Spike (23G0266-MS1)

Prepared: 07/11/23 10:27 Analyzed: 07/11/23 16:55

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Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Project:

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project Number: **M0496.02.003**

Blue Heron Paper Mill

Project Manager: Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23G0266 - EPA 1311/301	5A						Soi	1					
Matrix Spike (23G0266-MS1)			Prepared:	07/11/23	10:27 Anal	yzed: 07/11/	23 16:55						
QC Source Sample: DS-16 (A3F16 1311/6020B	<u>14-03)</u>												
Arsenic	5.10		0.100	mg/L	10	5.00	ND	102	50-150%				
Barium	11.7		5.00	mg/L	10	10.0	ND	117	50-150%				
Cadmium	1.01		0.100	mg/L	10	1.00	ND	101	50-150%				
Chromium	4.89		0.100	mg/L	10	5.00	ND	98	50-150%				
Lead	5.28		0.0500	mg/L	10	5.00	ND	106	50-150%				
Mercury	0.105		0.00700	mg/L	10	0.100	ND	105	50-150%				
Selenium	1.01		0.100	mg/L	10	1.00	ND	101	50-150%				
Silver	0.989		0.100	mg/L	10	1.00	ND	99	50-150%				

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Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Weig	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1093 - Total Solids (Dry Weig	ht) - 2022					Soi	1				
Duplicate (23F1093-DUP1)			Prepared	: 06/29/23	10:11 Ana	lyzed: 06/30	/23 07:24					PRO
QC Source Sample: Non-SDG (A3	3F1526-02)											
% Solids	97.9		1.00	%	1		97.9			0.02	10%	
Duplicate (23F1093-DUP2)			Prepared	: 06/29/23	10:11 Ana	lyzed: 06/30	/23 07:24					PRO
QC Source Sample: Non-SDG (A3	3F1526-04)											
% Solids	97.5		1.00	%	1		97.5			0.05	10%	
Duplicate (23F1093-DUP3)			Prepared	: 06/29/23	10:11 Ana	lyzed: 06/30	/23 07:24					PRO, TEMP
QC Source Sample: Non-SDG (A3	3F1547-04)											
% Solids	99.0		1.00	%	1		99.0			0.004	10%	
Duplicate (23F1093-DUP4)			Prepared	: 06/29/23	19:13 Ana	lyzed: 06/30	/23 07:24					
QC Source Sample: Non-SDG (A3	3F1667-01)											
% Solids	82.7		1.00	%	1		81.1			2	10%	
Duplicate (23F1093-DUP5)			Prepared	: 06/29/23	19:13 Ana	lyzed: 06/30	/23 07:24					
QC Source Sample: Non-SDG (A3	3F1667-02)											
% Solids	82.1		1.00	%	1		81.9			0.3	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

SAMPLE PREPARATION INFORMATION

	Hydrocarbon Identification Screen by NWTPH-HCID													
Prep: NWTPH-HCID (<u>Soil)</u>				Sample	Default	RL Prep							
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor							
Batch: 23F1079														
A3F1614-01	Soil	NWTPH-HCID	06/28/23 14:20	06/29/23 06:26	10.03g/10mL	10g/10mL	1.00							
		Diesel an	d/or Oil Hydrocarbor	is by NWTPH-Dx										
Prep: EPA 3546 (Fue	ls <u>)</u>				Sample	Default	RL Prep							
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor							
Batch: 23G0138														
A3F1614-01	Soil	NWTPH-Dx	06/28/23 14:20	07/06/23 14:59	10.26g/5mL	10g/5mL	0.98							
		Polych	Iorinated Binhenvis											
		T Olych												
<u>Prep: EPA 3546</u>					Sample	Default	RL Prep							
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor							
Batch: 23F1147														
A3F1614-01	Soil	EPA 8082A	06/28/23 14:20	06/30/23 09:59	10.14g/5mL	10g/5mL	0.99							
Batch: 23G0216														
A3F1614-02	Soil	EPA 8082A	06/28/23 14:25	07/10/23 09:47	10.4g/5mL	10g/5mL	0.96							
A3F1614-03	Soil	EPA 8082A	06/28/23 14:30	07/10/23 09:47	5.06g/5mL	10g/5mL	1.98							
A3F1614-04	Soil	EPA 8082A	06/28/23 14:35	07/10/23 09:47	10.21g/5mL	10g/5mL	0.98							
A3F1614-05	Soil	EPA 8082A	06/28/23 14:40	07/10/23 09:47	10.01g/5mL	10g/5mL	1.00							
														

		,	<u>,</u>		,		
Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23G0217							
A3F1614-02	Soil	EPA 8270E SIM	06/28/23 14:25	07/10/23 09:49	10.06g/5mL	10g/5mL	0.99
A3F1614-03	Soil	EPA 8270E SIM	06/28/23 14:30	07/10/23 09:49	5.16g/5mL	10g/5mL	1.94
A3F1614-04	Soil	EPA 8270E SIM	06/28/23 14:35	07/10/23 09:49	10.03g/5mL	10g/5mL	1.00
A3F1614-05	Soil	EPA 8270E SIM	06/28/23 14:40	07/10/23 09:49	10.31g/5mL	10g/5mL	0.97

Semivolatile Organic Compounds by EPA 8270E									
Prep: EPA 3546					Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		

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Philip Nevenberg

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Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.			Project: Blue He	eron Paper Mill					
3140 NE Broadway Str	reet		Project Number: M0496.	02.003		<u>Report ID:</u>			
Portland, OR 97232 Project Mar			Project Manager: Jacob F	aust		A3F1614 - 08 04 23	3 1136		
		SAMPL	E PREPARATION I	NFORMATION					
		Semivolat	ile Organic Compour	ds by EPA 8270E					
Prep: EPA 3546					Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23G0058 A3F1614-01RE1	Soil	EPA 8270E	06/28/23 14:20	07/05/23 13:04	15.22g/2mL	15g/2mL	0.99		
		Tota	al Metals by EPA 602	OB (ICPMS)					
Prep: EPA 3051A	ep: EPA 3051A				Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23G0050									
A3F1614-01RE1	Soil	EPA 6020B	06/28/23 14:20	07/05/23 06:44	0.479g/50mL	0.5g/50mL	1.04		
Batch: 23G0173									
A3F1614-02	Soil	EPA 6020B	06/28/23 14:25	07/07/23 10:31	0.481g/50mL	0.5g/50mL	1.04		
A3F1614-03	Soil	EPA 6020B	06/28/23 14:30	07/07/23 10:31	0.503g/50mL	0.5g/50mL	0.99		
A3F1614-04	Soil	EPA 6020B	06/28/23 14:35	07/07/23 10:31	0.485g/50mL	0.5g/50mL	1.03		
A3F1614-05	Soil	EPA 6020B	06/28/23 14:40	07/07/23 10:31	0.496g/50mL	0.5g/50mL	1.01		
		TCL	P Metals by EPA 602	0B (ICPMS)					
Prep: EPA 1311/3015/	<u>A</u>				Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23F1141									
A3F1614-01	Soil	1311/6020B	06/28/23 14:20	06/30/23 11:00	10mL/50mL	10mL/50mL	1.00		
Batch: 23G0113									
A3F1614-01RE1	Soil	1311/6020B	06/28/23 14:20	07/06/23 09:38	5mL/50mL	10mL/50mL	2.00		
Batch: 23G0266									
A3F1614-03	Soil	1311/6020B	06/28/23 14:30	07/11/23 10:27	10mL/50mL	10mL/50mL	1.00		
A3F1614-05	Soil	1311/6020B	06/28/23 14:40	07/11/23 10:27	10mL/50mL	10mL/50mL	1.00		
			Percent Dry We	aht					
Prep: Total Solids (Dr.	v Weight) - 2022		. croshi biy wo	3	Sample	Default	RL Pren		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
			P						
Batch: 23F1093									
Batch: 23F1093 A3F1614-01	Soil	EPA 8000D	06/28/23 14:20	06/29/23 10:11			NA		
Batch: 23F1093 A3F1614-01 A3F1614-02	Soil Soil	EPA 8000D EPA 8000D	06/28/23 14:20 06/28/23 14:25	06/29/23 10:11 06/29/23 10:11			NA NA		
Batch: 23F1093 A3F1614-01 A3F1614-02 A3F1614-03	Soil Soil Soil	EPA 8000D EPA 8000D EPA 8000D	06/28/23 14:20 06/28/23 14:25 06/28/23 14:30	06/29/23 10:11 06/29/23 10:11 06/29/23 10:11			NA NA NA		

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Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project Number: M0496.02.003 Project Manager: Jacob Faust

Project:

<u>Report ID:</u> A3F1614 - 08 04 23 1136

SAMPLE PREPARATION INFORMATION

Blue Heron Paper Mill

Percent Dry Weight									
Prep: Total Solids (Dr	/ Weight) - 2022				Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled Pre		Initial/Final	Initial/Final	Factor		
A3F1614-05	Soil	EPA 8000D 06/28/23 14:40 0		06/29/23 10:11			NA		
		-		DA 4044					
			ICLP Extraction by E	PA 1311					
<u>Prep: EPA 1311 (TCLP)</u>					Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23F1124									
A3F1614-01	Soil	EPA 1311	06/28/23 14:20	06/29/23 18:03	100g/2000.8g	100g/2000g	NA		
Batch: 23G0219									
A3F1614-03	Soil	EPA 1311	06/28/23 14:30	07/10/23 13:53	100g/2000g	100g/2000g	NA		
A3F1614-05	Soil	EPA 1311	06/28/23 14:40	07/10/23 13:53	100g/2000.3g	100g/2000g	NA		

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Blue Heron Paper Mill

Project Number: M0496.02.003 Project Manager: Jacob Faust <u>Report ID:</u> A3F1614 - 08 04 23 1136

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- A-01 Diesel result is impacted by overlap from Oil Range product.
- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- **COMP** Analyzed sample is a composite of discrete samples that was performed in the laboratory.
- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05 Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- P-09 Due to weathering and/or the presence of an unknown mixture of PCB Congeners, the pattern does not match the standard used for calibration. Results are Estimated and based on the closest matching Aroclor.
- P-10 Result estimated due to the presence of multiple PCB Aroclors and/or matrix interference.
- P-12 Result estimated due to the presence of multiple PCB Aroclors and/or PCB congeners not defined as Aroclors.
- PRO Sample has undergone sample processing prior to extraction and analysis.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05 Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-17 RPD between original and duplicate sample is outside of established control limits.
- Q-29 Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52 Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- **R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-01 Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-03 Sample re-extract, or the analysis of an associated Batch QC sample, confirms surrogate failure due to sample matrix effect.
- S-05 Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23F1124.

Apex Laboratories

Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project:	Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number:	M0496.02.003	Report ID:
Portland, OR 97232	Project Manager:	Jacob Faust	A3F1614 - 08 04 23 1136

TCLPa This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23G0219.

TEMP Sample was received or stored outside of recommended temperature.

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project: Blue Heron Paper Mill

Project Number: M0496.02.003 Project Manager: Jacob Faust <u>Report ID:</u> A3F1614 - 08 04 23 1136

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- <u>" dry"</u> Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "____ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"--- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

"*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project: <u>Blue Heron Paper Mill</u> Project Number: M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Blue Heron Paper Mill
Project Number: M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3F1614 - 08 04 23 1136

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories								
Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation			

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. **Blue Heron Paper Mill** Project: **3140 NE Broadway Street** Project Number: M0496.02.003 **Report ID:** Portland, OR 97232 Project Manager: Jacob Faust A3F1614 - 08 04 23 1136 FTOZER ATCHIVE Form Y-002 R-00 Hold Sample 1 of 1 8 Date: Time: 200 20 oject #: MOLI 9 6. X= run; 0= potential followly analysis. TAT for sumple "Concrete-0628" ab # ATF 1614 RECEIVED BY: Signature: rinted Name ompany PO # SHVA WIS OLIS × × × × others. XXX TCLP Metals (8) XX TCLP Email ; faustemaul foster.com WALYSIS REQUEST هاا Peper Mill Date: Time: tor t Priority Metals (13) Standend TAT SPECIAL INSTRUCTIONS: X RCRA Metals (8) $\times \times$ × × Project Name: Blue Heron sos1 Pesticides RELINQUISHED XX CHAIN OF CUSTODY 8085 FCBs XX \times S-day. rinted Nam tsi.I fluft sloV-im52 0728 SHAT MIS 0728 8260 VOCs Full List Phone: 503320.0510 8260 Halo VOCs 8260 RBDM VOCs 8260 BTEX NML6H-Cx 0 Fend XQ-HALMN 0 3 Day Other MML6H-HCID × Dav Sacolo Portland, 60 RECEIVED BY Standard Turn Around Time (TAT) = 10 Business # OF CONTAINERS m _ Standard 700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323 2 Day SAMPLES ARE HELD FOR 30 DAYS XIATAM S 1 Project Mgr: 430 1435 Hyo 1420 51 IIME 5 Day 6128/23 ざ 1 Day ATE 6128 1600 Date: Line Company: Maul Fuster & Alongi Address: 340 NE Brandwoy Malone County Muldmomak **TAT Requested (circle)** Concrete 10628 **4PEX LABS** SAMPLE ID Malener State OD ŵ 21-da **GENINQUISHED** Site Location: p1-10 21-da M-90 12 Sampled by: NEA inted Name Sean ompany: lature:

Apex Laboratories

Philip Nevenberg



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project: Blue Heron Paper Mill
Project Number: M0496.02.003

Project Manager: Jacob Faust



A3F1614 Philip Nerenberg Subject: FW: Blue Heron report/EDD (A3F1614) From: Mary Benzinger [mailto:mbenzinger@maulfoster.com] Sent: Thursday, August 3, 2023 1:47 PM To: Philip Nerenberg Subject: RE: Blue Heron report/EDD (A3F1614) CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Hi Philip, The sample names on the COC submitted for A3F1614 were incorrect; they should have been "DS-" instead of "DP-." Could we have the following names corrected and the report reissued? Would be great to get a revised EDD as well, but I can manually correct if that makes it easier. **Current Sample ID Revised Sample ID** (no change to "Concrete-0628" (no change) DP-15 DS-15 DP-16 DS-16 DP-17 DS-17 DP-18 DS-18 Thank you, MARY BENZINGER | MAUL FOSTER & ALONGI, INC. Senior Chemist pronouns: she/her m. 503 319 7132 MAUL FOSTER ALONGI 109 East 13th Street, Vancouver, WA 98660 www.maulfoster.com 1

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This

analytical report must be reproduced in its entirety.



AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Along	ri, INC. Project: Blue Heron Paper Mill	
3140 NE Broadway S	Street Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136
Portland, OR 97232	Project Manager: Jacob Faust APEX LABS COOLER RECEIPT FORM Hient:	A3F1614 - 08 04 23 1136
La	witness: Cooler Inspected by: \mathcal{D}^{JS}	

Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Wednesday, July 26, 2023 Jacob Faust

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232

RE: A3G1249 - Blue Heron Paper Mill - M0496.02.003

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3G1249, which was received by the laboratory on 7/18/2023 at 11:16:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>pnerenberg@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 9.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	<u>Report ID:</u>
Portland, OR 97232	Project Manager: Jacob Faust	A3G1249 - 07 26 23 1642

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION							
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received			
DS-17-071823	A3G1249-01	Soil	07/18/23 10:30	07/18/23 11:16			

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street Portland, OR 97232	Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust						<u>Report ID:</u> A3G1249 - 07 26 23 1642		
ANALYTICAL SAMPLE RESULTS									
	TCLP Metals by EPA 6020B (ICPMS)								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
DS-17-071823 (A3G1249-01)	DS-17-071823 (A3G1249-01) Matrix: Soil								
Batch: 23G0784 Lead	ND		0.0500	mg/L	10	07/25/23 20:05	1311/6020B		

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street Portland, OR 97232		Project Project	iect: <u>Blue</u> t Number: M04 Manager: Jaco	Heron Paper 1 96.02.003 b Faust	<u>Mill</u>		<u>Report ID:</u> A3G1249 - 07 26 23	1642
		ANALYTI	CAL SAMPI	LE RESULI	ſS			
		TCLP E	Extraction by	EPA 1311				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DS-17-071823 (A3G1249-01)				Matrix: So	bil	Batch	n: 23G0676	
TCLP Extraction	PREP			N/A	1	07/24/23 17:36	EPA 1311	

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. **3140 NE Broadway Street**

Portland, OR 97232

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Project: **Blue Heron Paper Mill** Project Number: M0496.02.003

Project Manager: Jacob Faust

Report ID: A3G1249 - 07 26 23 1642

QUALITY CONTROL (QC) SAMPLE RESULTS

				letals by	EPA 602	0B (ICPM	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0784 - EPA 1311/301	5A						So	lid				
Blank (23G0784-BLK1)			Prepared:	07/25/23	15:24 Ana	yzed: 07/25	/23 19:03					
<u>1311/6020B</u>												
Lead	ND		0.0500	mg/L	10							TCL
LCS (23G0784-BS1)			Prepared:	07/25/23	15:24 Anal	yzed: 07/25	/23 19:08					
<u>1311/6020B</u>												
Lead	5.35		0.0500	mg/L	10	5.00		107	80-120%			TCL
Duplicate (23G0784-DUP1)			Prepared:	07/25/23	15:24 Ana	yzed: 07/25	/23 20:10					
QC Source Sample: DS-17-071823	(A3G1249-	<u>01)</u>										
<u>1311/6020B</u>												
Lead	ND		0.0500	mg/L	10		0.0324			***	20%	
Matrix Spike (23G0784-MS1)			Prepared:	07/25/23	15:24 Ana	lyzed: 07/25	/23 20:15					
OC Source Sample: DS-17-071823 1311/6020B	<u>(A3G1249-</u>	<u>01)</u>								_		
Lead	5.56		0.0500	mg/L	10	5.00	0.0324	111	50-150%			
Matrix Spike (23G0784-MS2)			Prepared:	: 07/25/23	15:24 Ana	yzed: 07/25	/23 19:18					
QC Source Sample: Non-SDG (A30 1311/6020B	<u> 30748-03)</u>											
Lead	5.27		0.0500	mg/L	10	5.00	ND	105	50-150%			COMP,TCL
Matrix Spike (23G0784-MS3)			Prepared:	07/25/23	15:24 Ana	yzed: 07/25	/23 19:39					
OC Source Sample: Non-SDG (A30	<u> 31199-01)</u>											
Lead	5.18		0.0500	mg/L	10	5.00	ND	104	50-150%			CON
Matrix Spike (23G0784-MS4)			Prepared:	07/25/23	15:24 Ana	yzed: 07/25	/23 19:49					
QC Source Sample: Non-SDG (A30	<u> 31200-01)</u>											
<u>1311/6020B</u>												
Lead	5.47		0.0500	mg/L	10	5.00	ND	109	50-150%			

Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project: <u>Blue Heron Paper Mill</u> Project Number: M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3G1249 - 07 26 23 1642

QUALITY CONTROL (QC) SAMPLE RESULTS

	TCLP Metals by EPA 6020B (ICPMS)											
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0784 - EPA 1311	/3015A						Soli	id				
Matrix Spike (23G0784-M	S5)		Prepared	: 07/25/23	15:24 Anal	lyzed: 07/25/	/23 20:00					
QC Source Sample: Non-SDC 1311/6020B	<u>G (A3G1242-02)</u>											
Lead	5.63		0.0500	mg/L	10	5.00	0.270	107	50-150%			CON

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Blue3140 NE Broadway StreetProject Number:M049Portland, OR 97232Project Manager:JacobSAMPLE PREPARATION				eron Paper Mill .02.003 ⁷ aust INFORMATION		<u>Report ID:</u> 43G1249 - 07 26 23	3 1642		
TCLP Metals by EPA 6020B (ICPMS)									
Prep: EPA 1311/3015	5 <u>A</u>				Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23G0784									
A3G1249-01	Soil	1311/6020B	07/18/23 10:30	07/25/23 15:24	10mL/50mL	10mL/50mL	1.00		
			TCLP Extraction by E	EPA 1311					
Prep: EPA 1311 (TCL	<u>_P)</u>				Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
<u>Batch: 23G0676</u> A3G1249-01	Soil	EPA 1311	07/18/23 10:30	07/24/23 17:36	100g/2000.1g	100g/2000g	NA		

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Blue Heron Paper Mill
Project Number: M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3G1249 - 07 26 23 1642

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- **COMP** Analyzed sample is a composite of discrete samples that was performed in the laboratory.
- CONT The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
- TCLP This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23G0676.
- **TCLPa** Limited sample volume. Leachate was prepared using less than the specified amount of sample per EPA 1311 or 1312. For consistency in leaching, the standard 20x ratio of sample to leachate fluid was maintained. Results may not meet regulatory requirements.

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232

Project: Blue Heron Paper Mill Project Number: M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3G1249 - 07 26 23 1642

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- <u>" dry"</u> Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "____ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"--- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

"*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project: <u>Blue Heron Paper Mill</u> Project Number: M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3G1249 - 07 26 23 1642

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



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Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: <u>Blue Heron Paper Mill</u> Project Number: M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3G1249 - 07 26 23 1642

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

<u>Apex Lab</u>	<u>oratories</u>				
Matrix	Analysis	TNI_ID	Analyte	TNI_	ID Accreditation
		All reported analytes are included in Apex I	Laboratories' cur	rent ORELAP scope.	

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3G1249 - 07 26 23 1642
Portland, OR 97232 Client: Project/ Delivery Date/tim Delivere Cooler I Chain of Signed/d Tempera Custody Received Temp. bl Ice type:	Project Manager: Jacob Faust APEX LABS COOLER RECEIPT FORM MAU $for Stls J_AlonCy'_1$ Element WO#: A3 $G_{1/2}4^a$ Project #: Blue HFON Mill MG496.02.063 Info: By: VhP e received: $HISIT3@_UICBy: VhP$ By: VhP d by: Apex_Client_ESS_FedEx_UPS_Radio_Morgan_SDS_Evergreen_Other By: VhP "Custody included? Yes X No	A3G1249 - 07 26 23 1642
Conditio Cooler o Green do Out of te <u>Sample</u> All samp Bottle la	n (In/Out): <u>OUL</u> ut of temp? (NN) Possible reason why: <u>NULLATUY</u> SAMPLED ts applied to out of temperature samples? Yes No mperature samples form initiated? Yes No Inspection: Date/time inspected: <u>7.20.23</u> @ 1222 By: <u>3115</u> bles intact? Yes <u>No</u> Comments: bels/COCs agree? Yes <u>No</u> Comments:	
COC/con Containe Do VOA	ntainer discrepancies form initiated? Yes No $\underline{\times}$ ers/volumes received appropriate for analysis? Yes \geq No Comments: vials have visible headspace? Yes No NA $\underline{\sim}$	
Commer Water sa Commer	ntsntsNoNA_X_pH appropriate? YesNoNA_X nts:	
Addition	al information: by: Witness: Cooler Inspected by:	
D	Form Y-00:	3 R-00 -

Apex Laboratories

Philip Nevenberg

Attachment 6

Dye-Impacted Material Analytical Reports





Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Tuesday, May 23, 2023 Jacob Faust Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232

RE: A3D1700 - Blue Heron Paper Mill - M0496.01.002

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3D1700, which was received by the laboratory on 4/28/2023 at 10:21:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>pnerenberg@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 3.1 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project:	Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number:	M0496.01.002	<u>Report ID:</u>
Portland, OR 97232	Project Manager:	Jacob Faust	A3D1700 - 05 23 23 1457

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION								
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received				
Ink-W-001	A3D1700-01	Water	04/28/23 08:54	04/28/23 10:21				
Ink-S-001	A3D1700-02	Solid	04/28/23 09:10	04/28/23 10:21				
Ink-S-002	A3D1700-03	Concrete	04/28/23 09:22	04/28/23 10:21				

Apex Laboratories

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Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street

Portland, OR 97232

Project:	Blue Heron Paper Mill
Project Number:	M0496.01.002
Project Manager:	Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

ANALYTICAL SAMPLE RESULTS

	Hydro	ocarbon Identif	ication So	creen by NWTP	H-HCID			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01)				Matrix: Wate	r	Batch:	23E0098	
Gasoline Range Organics	ND		0.0962	mg/L	1	05/02/23 22:37	NWTPH-HCID	
Diesel Range Organics	ND		0.240	mg/L	1	05/02/23 22:37	NWTPH-HCID	
Oil Range Organics	ND		0.240	mg/L	1	05/02/23 22:37	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recover	y: 83 %	Limits: 50-150 %	1	05/02/23 22:37	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			26 %	10-120 %	1	05/02/23 22:37	NWTPH-HCID	
Ink-S-001 (A3D1700-02)				Matrix: Solic	1	Batch:	23E0068	
Gasoline Range Organics	DET		19.3	mg/kg	1	05/03/23 02:31	NWTPH-HCID	F-13
Diesel Range Organics	DET		48.3	mg/kg	1	05/03/23 02:31	NWTPH-HCID	F-13
Oil Range Organics	DET		96.5	mg/kg	1	05/03/23 02:31	NWTPH-HCID	F-13
Surrogate: o-Terphenyl (Surr)		Recover	y: 80 %	Limits: 50-150 %	1	05/03/23 02:31	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			71 %	50-150 %	1	05/03/23 02:31	NWTPH-HCID	
Ink-S-002 (A3D1700-03)				Matrix: Cond	crete	Batch:	23E0068	
Gasoline Range Organics	DET		18.9	mg/kg	1	05/03/23 04:05	NWTPH-HCID	F-13
Diesel Range Organics	DET		47.3	mg/kg	1	05/03/23 04:05	NWTPH-HCID	F-13
Oil Range Organics	DET		94.6	mg/kg	1	05/03/23 04:05	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recover	ry: 91 %	Limits: 50-150 %	1	05/03/23 04:05	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			84 %	50-150 %	1	05/03/23 04:05	NWTPH-HCID	

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.01.002	<u>Report ID:</u>
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-S-001 (A3D1700-02RE1)				Matrix: Solid Batch: 23E0378				
Diesel	ND		1830	mg/kg	50	05/10/23 07:16	NWTPH-Dx	
Oil	4570		3660	mg/kg	50	05/10/23 07:16	NWTPH-Dx	F-13, Q-42
Surrogate: o-Terphenyl (Surr)		R	ecovery: %	Limits: 50-150 %	50	05/10/23 07:16	NWTPH-Dx	S-01
Ink-S-002 (A3D1700-03)			Matrix: Concrete		Batch: 23E0378			
Diesel	ND		184	mg/kg	10	05/10/23 01:29	NWTPH-Dx	
Oil	1730		369	mg/kg	10	05/10/23 01:29	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 108 %	Limits: 50-150 %	10	05/10/23 01:29	NWTPH-Dx	S-05

Apex Laboratories

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Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-S-001 (A3D1700-02)				Matrix: Solid	d	Batch:	23E0310	R-04, V-15
Gasoline Range Organics	ND		48.7	mg/kg wet	500	05/08/23 20:29	NWTPH-Gx (MS)
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 107 %	Limits: 50-150 %	6 I	05/08/23 20:29	NWTPH-Gx (MS)
1,4-Difluorobenzene (Sur)			102 %	50-150 %	6 I	05/08/23 20:29	NWTPH-Gx (MS))
Ink-S-002 (A3D1700-03)				Matrix: Con	crete	Batch:	23E0310	R-04, V-15
Gasoline Range Organics	ND		49.7	mg/kg wet	500	05/08/23 20:54	NWTPH-Gx (MS)
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 107 %	Limits: 50-150 %	6 I	05/08/23 20:54	NWTPH-Gx (MS))
1,4-Difluorobenzene (Sur)			102 %	50-150 %	6 I	05/08/23 20:54	NWTPH-Gx (MS))

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.					
3140 NE Broadway Street					
Portland, OR 97232					

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

Report ID:	
A3D1700 - 05 23 23 145	7

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01)				Matrix: Wate	er	Batch:	23E0041	C-07
Aroclor 1016	ND		0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1221	ND		0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1232	ND		0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1242	ND		0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1248	ND		0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1254	ND		0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1260	ND		0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Reco	very: 81 %	Limits: 40-135 %	1	05/01/23 22:11	EPA 8082A	
Ink-S-001 (A3D1700-02)			Matrix: Solid		Batch: 23E0083		C-07	
Aroclor 1016	ND		73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1221	ND		73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1232	ND		73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1242	ND		73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1248	ND		73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1254	ND		73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1260	ND		73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recov	ery: 113 %	Limits: 60-125 %	2	05/02/23 21:48	EPA 8082A	
Ink-S-002 (A3D1700-03)				Matrix: Cond	crete	Batch: 23E0083		C-07
Aroclor 1016	ND		70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	
Aroclor 1221	ND		70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	
Aroclor 1232	ND		70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	
Aroclor 1242	ND		70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	
Aroclor 1248	ND		70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	
Aroclor 1254	98.4		70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	P-12
Aroclor 1260	160		70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	P-12
Surrogate: Decachlorobiphenyl (Surr)		Recove	ery: 108 %	Limits: 60-125 %	2	05/02/23 23:01	EPA 8082A	

Apex Laboratories

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Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

Report ID:	
A3D1700 - 05 23 23 145	7

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01RE1)				Matrix: Wa	ater	Batch:	23E0159	
Acenaphthene	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Acenaphthylene	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Anthracene	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Benz(a)anthracene	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzo(a)pyrene	ND		0.156	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzo(b)fluoranthene	ND		0.156	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzo(k)fluoranthene	ND		0.156	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzo(g,h,i)perylene	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Chrysene	0.109		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Dibenz(a,h)anthracene	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Fluoranthene	0.251		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Fluorene	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
1-Methylnaphthalene	ND		0.208	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Methylnaphthalene	ND		0.208	ug/L	4	05/03/23 23:14	EPA 8270E	
Naphthalene	ND		0.208	ug/L	4	05/03/23 23:14	EPA 8270E	
Phenanthrene	0.251		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Pyrene	0.220		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Carbazole	ND		0.156	ug/L	4	05/03/23 23:14	EPA 8270E	
Dibenzofuran	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Chlorophenol	ND		0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Chloro-3-methylphenol	ND		1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4-Dichlorophenol	ND		0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4-Dimethylphenol	ND		0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4-Dinitrophenol	ND		2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND		2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Methylphenol	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
3+4-Methylphenol(s)	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Nitrophenol	ND		1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Nitrophenol	ND		1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
Pentachlorophenol (PCP)	ND		1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
Phenol	ND		2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND		0.519	ug/L	4	05/03/23 23:14	EPA 8270E	

Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report</u>	ID:	
A3D1700 - 05 23	3 23	1457

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01RE1)				Matrix: Wa	iter	Batch: 2	3E0159	
2,3,5,6-Tetrachlorophenol	ND		0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4,5-Trichlorophenol	ND		0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4,6-Trichlorophenol	ND		0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND		2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Butyl benzyl phthalate	ND		2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Diethylphthalate	ND		2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Dimethylphthalate	ND		2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Di-n-butylphthalate	ND		2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Di-n-octyl phthalate	ND		2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
N-Nitrosodimethylamine	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
N-Nitroso-di-n-propylamine	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
N-Nitrosodiphenylamine	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Bis(2-Chloroethyl) ether	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Hexachlorobenzene	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Hexachlorobutadiene	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Hexachlorocyclopentadiene	ND		0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
Hexachloroethane	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Chloronaphthalene	ND		0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
1,2,4-Trichlorobenzene	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Bromophenyl phenyl ether	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Chlorophenyl phenyl ether	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Aniline	ND		0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Chloroaniline	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Nitroaniline	ND		2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
3-Nitroaniline	ND		2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Nitroaniline	ND		2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Nitrobenzene	ND		1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4-Dinitrotoluene	ND		1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
2,6-Dinitrotoluene	ND		1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzoic acid	ND		13.0	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzyl alcohol	ND		1.04	ug/L	4	05/03/23 23:14	EPA 8270E	

Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

Report ID:	
A3D1700 - 05 23 23	1457

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01RE1)				Matrix: Wate	r	Batch: 2	23E0159	
Isophorone	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Azobenzene (1,2-DPH)	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND		2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
3,3'-Dichlorobenzidine	ND		5.19	ug/L	4	05/03/23 23:14	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND		2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
1,3-Dinitrobenzene	ND		2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
1,4-Dinitrobenzene	ND		2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
Pyridine	ND		1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
1,2-Dichlorobenzene	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
1,3-Dichlorobenzene	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
1,4-Dichlorobenzene	ND		0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Reco	very: 61 %	Limits: 44-120 %	4	05/03/23 23:14	EPA 8270E	
2-Fluorobiphenyl (Surr)			63 %	44-120 %	4	05/03/23 23:14	EPA 8270E	
Phenol-d6 (Surr)			26 %	10-133 %	4	05/03/23 23:14	EPA 8270E	
p-Terphenyl-d14 (Surr)			104 %	50-134 %	4	05/03/23 23:14	EPA 8270E	
2-Fluorophenol (Surr)			43 %	19-120 %	4	05/03/23 23:14	EPA 8270E	
2,4,6-Tribromophenol (Surr)			118 %	43-140 %	4	05/03/23 23:14	EPA 8270E	Q-41
Ink-S-001 (A3D1700-02)				Matrix: Solid		Batch: 23E0084		R-04
Acenaphthene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Acenaphthylene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Anthracene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benz(a)anthracene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzo(a)pyrene	ND		3970	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzo(b)fluoranthene	ND		3970	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzo(k)fluoranthene	ND		3970	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzo(g,h,i)perylene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Chrysene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Dibenz(a,h)anthracene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Fluoranthene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Fluorene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
1-Methylnaphthalene	ND		5290	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Methylnaphthalene	ND		5290	ug/kg	400	05/02/23 19:07	EPA 8270E	

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Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

Report 1	D:	
A3D1700 - 05 23	23	1457

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-S-001 (A3D1700-02)				Matrix: So	olid	Batch:	23E0084	R-04
Naphthalene	ND		5290	ug/kg	400	05/02/23 19:07	EPA 8270E	
Phenanthrene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Pyrene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Carbazole	ND		3970	ug/kg	400	05/02/23 19:07	EPA 8270E	
Dibenzofuran	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Chlorophenol	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Chloro-3-methylphenol	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,4-Dichlorophenol	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,4-Dimethylphenol	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,4-Dinitrophenol	ND		66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND		66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Methylphenol	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
3+4-Methylphenol(s)	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Nitrophenol	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Nitrophenol	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Pentachlorophenol (PCP)	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Phenol	ND		5290	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	Q-42
2,4,5-Trichlorophenol	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,4,6-Trichlorophenol	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND		39700	ug/kg	400	05/02/23 19:07	EPA 8270E	
Butyl benzyl phthalate	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Diethylphthalate	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Dimethylphthalate	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Di-n-butylphthalate	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Di-n-octyl phthalate	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
N-Nitrosodimethylamine	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
N-Nitroso-di-n-propylamine	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
N-Nitrosodiphenylamine	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Bis(2-Chloroethyl) ether	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	

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Philip Nevenberg



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

Report ID:	
A3D1700 - 05 23 23 145'	7

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-S-001 (A3D1700-02)				Matrix: Solid		Batch: 2	23E0084	R-04
Hexachlorobenzene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Hexachlorobutadiene	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Hexachlorocyclopentadiene	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
Hexachloroethane	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Chloronaphthalene	ND		2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,2,4-Trichlorobenzene	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Bromophenyl phenyl ether	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Chlorophenyl phenyl ether	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Aniline	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Chloroaniline	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Nitroaniline	ND		52900	ug/kg	400	05/02/23 19:07	EPA 8270E	
3-Nitroaniline	ND		52900	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Nitroaniline	ND		52900	ug/kg	400	05/02/23 19:07	EPA 8270E	
Nitrobenzene	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,4-Dinitrotoluene	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,6-Dinitrotoluene	ND		26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzoic acid	ND		331000	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzyl alcohol	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
Isophorone	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Azobenzene (1,2-DPH)	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND		66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
3,3'-Dichlorobenzidine	ND		52900	ug/kg	400	05/02/23 19:07	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND		66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,3-Dinitrobenzene	ND		66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,4-Dinitrobenzene	ND		66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
Pyridine	ND		13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,2-Dichlorobenzene	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,3-Dichlorobenzene	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,4-Dichlorobenzene	ND		6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recove	ry: 72 %	Limits: 37-122 %	400	05/02/23 19:07	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			79 %	44-120 %	400	05/02/23 19:07	EPA 8270E	S-05
Phenol-d6 (Surr)			67 %	33-122 %	400	05/02/23 19:07	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			80 %	54-127 %	400	05/02/23 19:07	EPA 8270E	S-05
2-Fluorophenol (Surr)			37 %	35-120 %	400	05/02/23 19:07	EPA 8270E	S-05

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002

Project Manager: Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-S-001 (A3D1700-02)				Matrix: Solic	d	Batch: 2	23E0084	R-04
Surrogate: 2,4,6-Tribromophenol (Surr)		Recovery:	1350 %	Limits: 39-132 %	400	05/02/23 19:07	EPA 8270E	S-05
Ink-S-002 (A3D1700-03)				Matrix: Cond	crete	Batch: 2	23E0084	
Acenaphthene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Acenaphthylene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Anthracene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benz(a)anthracene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benzo(a)pyrene	ND		159	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benzo(b)fluoranthene	ND		159	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benzo(k)fluoranthene	ND		159	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benzo(g,h,i)perylene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Chrysene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Dibenz(a,h)anthracene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Fluoranthene	130		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Fluorene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
1-Methylnaphthalene	ND		212	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Methylnaphthalene	ND		212	ug/kg	40	05/02/23 20:17	EPA 8270E	
Naphthalene	ND		212	ug/kg	40	05/02/23 20:17	EPA 8270E	
Phenanthrene	121		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Pyrene	130		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Carbazole	ND		159	ug/kg	40	05/02/23 20:17	EPA 8270E	
Dibenzofuran	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Chlorophenol	ND		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Chloro-3-methylphenol	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4-Dichlorophenol	ND		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4-Dimethylphenol	ND		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4-Dinitrophenol	ND		2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND		2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Methylphenol	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
3+4-Methylphenol(s)	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Nitrophenol	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Nitrophenol	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
Pentachlorophenol (PCP)	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	

Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

Report ID:	
A3D1700 - 05 23 23 1457	7

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-S-002 (A3D1700-03)				Matrix: Co	oncrete	Batch:	23E0084	
Phenol	ND		212	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4,5-Trichlorophenol	ND		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4,6-Trichlorophenol	ND		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND		1590	ug/kg	40	05/02/23 20:17	EPA 8270E	
Butyl benzyl phthalate	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
Diethylphthalate	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
Dimethylphthalate	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
Di-n-butylphthalate	1630		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
Di-n-octyl phthalate	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
N-Nitrosodimethylamine	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
N-Nitroso-di-n-propylamine	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
N-Nitrosodiphenylamine	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Bis(2-Chloroethyl) ether	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Hexachlorobenzene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Hexachlorobutadiene	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Hexachlorocyclopentadiene	ND		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
Hexachloroethane	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Chloronaphthalene	ND		106	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,2,4-Trichlorobenzene	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Bromophenyl phenyl ether	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Chlorophenyl phenyl ether	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Aniline	ND		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Chloroaniline	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Nitroaniline	ND		2120	ug/kg	40	05/02/23 20:17	EPA 8270E	
3-Nitroaniline	ND		2120	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Nitroaniline	ND		2120	ug/kg	40	05/02/23 20:17	EPA 8270E	
Nitrobenzene	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4-Dinitrotoluene	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,6-Dinitrotoluene	ND		1060	ug/kg	40	05/02/23 20:17	EPA 8270E	

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Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Pro
3140 NE Broadway Street	Proje
Portland, OR 97232	Projec

Project:Blue Heron Paper MillProject NumberM0496.01.002Project Manager:Jacob Faust

Report ID:	
A3D1700 - 05 23 23 145	7

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-002 (A3D1700-03)				Matrix: Cond	crete	Batch: 2	23E0084	
Benzoic acid	ND		13200	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benzyl alcohol	1500		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
Isophorone	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Azobenzene (1,2-DPH)	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND		2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
3,3'-Dichlorobenzidine	ND		2120	ug/kg	40	05/02/23 20:17	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND		2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,3-Dinitrobenzene	ND		2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,4-Dinitrobenzene	ND		2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
Pyridine	ND		528	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,2-Dichlorobenzene	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,3-Dichlorobenzene	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,4-Dichlorobenzene	ND		265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery	: 39%	Limits: 37-122 %	40	05/02/23 20:17	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			62 %	44-120 %	40	05/02/23 20:17	EPA 8270E	S-05
Phenol-d6 (Surr)			39 %	33-122 %	40	05/02/23 20:17	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			90 %	54-127 %	40	05/02/23 20:17	EPA 8270E	S-05
2-Fluorophenol (Surr)			11 %	35-120 %	40	05/02/23 20:17	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)			%	39-132 %	40	05/02/23 20:17	EPA 8270E	S-01

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Philip Nevenberg

Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Factor & Alangi INC		Duo	aati Dina I	Janan Danan I	AT:11						
Maul Foster & Alongi, INC.	Iaul Foster & Alongi, INC. Project: Blue Heron Paper Mill 140 NE Broadway Streat Droject Number: M0406 01 002										
Portland, OR 97232			<u>Report ID:</u>	1457							
Fortiand, OK 77252	A3D1700 - 03 23 23	1437									
		ANALYTI	CAL SAMPL	E RESULI	ſS						
		Total Meta	lls by EPA 602	20B (ICPMS	5)						
	Sample	Detection	Reporting			Date					
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes			
Ink-W-001 (A3D1700-01)		Matrix: Water									
Batch: 23E0048											
Arsenic	4.43		1.00	ug/L	1	05/02/23 01:15	EPA 6020B				
Barium	20.9		2.00	ug/L	1	05/02/23 01:15	EPA 6020B				
Cadmium	ND		0.200	ug/L	1	05/02/23 01:15	EPA 6020B				
Chromium	8.91		2.00	ug/L	1	05/02/23 01:15	EPA 6020B				
Iron	548		50.0	ug/L	1	05/02/23 01:15	EPA 6020B				
Lead	1.03		0.200	ug/L	1	05/02/23 01:15	EPA 6020B				
Mercury	ND		0.0800	ug/L	1	05/02/23 01:15	EPA 6020B				
Selenium	ND		1.00	ug/L	1	05/02/23 01:15	EPA 6020B				
Silver	ND		0.200	ug/L	1	05/02/23 01:15	EPA 6020B				
Ink-W-001 (A3D1700-01RE1)				Matrix: W	ater						
Batch: 23E0048											
Manganese	74.0		1.00	ug/L	1	05/03/23 00:00	EPA 6020B				
Ink-S-001 (A3D1700-02)				Matrix: So	blid						

<u>.</u>		 					
Batch: 23E0003							
Arsenic	76.1	 1.09	mg/kg	10	05/02/23 23:06	EPA 6020B	
Barium	39.4	 1.09	mg/kg	10	05/02/23 23:06	EPA 6020B	
Cadmium	0.570	 0.218	mg/kg	10	05/02/23 23:06	EPA 6020B	
Chromium	20.9	 1.09	mg/kg	10	05/02/23 23:06	EPA 6020B	
Iron	21200	 54.6	mg/kg	10	05/02/23 23:06	EPA 6020B	
Lead	54.8	 0.218	mg/kg	10	05/02/23 23:06	EPA 6020B	
Manganese	118	 1.09	mg/kg	10	05/02/23 23:06	EPA 6020B	
Mercury	0.198	 0.0873	mg/kg	10	05/02/23 23:06	EPA 6020B	
Selenium	ND	 1.09	mg/kg	10	05/02/23 23:06	EPA 6020B	
Silver	ND	 0.218	mg/kg	10	05/02/23 23:06	EPA 6020B	
Ink-S-002 (A3D1700-03)			Matrix: Con	crete			
Batch: 23E0003							
Arsenic	31.5	 1.02	mg/kg	10	05/02/23 23:11	EPA 6020B	
Barium	469	 1.02	mg/kg	10	05/02/23 23:11	EPA 6020B	
Cadmium	1.70	 0.204	mg/kg	10	05/02/23 23:11	EPA 6020B	
Chromium	41.5	 1.02	mg/kg	10	05/02/23 23:11	EPA 6020B	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.01.002	<u>Report ID:</u>
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)										
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes		
Ink-S-002 (A3D1700-03)	Matrix: Concrete									
Iron	32500		51.0	mg/kg	10	05/02/23 23:11	EPA 6020B			
Lead	105		0.204	mg/kg	10	05/02/23 23:11	EPA 6020B			
Manganese	444		1.02	mg/kg	10	05/02/23 23:11	EPA 6020B			
Mercury	2.90		0.0816	mg/kg	10	05/02/23 23:11	EPA 6020B			
Selenium	ND		1.02	mg/kg	10	05/02/23 23:11	EPA 6020B			
Silver	ND		0.204	mg/kg	10	05/02/23 23:11	EPA 6020B			

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street Portland, OR 97232		<u>Report ID:</u> A3D1700 - 05 23 23	1457							
ANALYTICAL SAMPLE RESULTS										
TCLP Metals by EPA 6020B (ICPMS)										
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes		
Ink-S-002 (A3D1700-03)				Matrix: Co	ncrete					
Batch: 23E0390										
Lead	ND		0.0500	mg/L	10	05/09/23 15:23	1311/6020B			

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Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street Portland, OR 97232		<u>Report ID:</u> A3D1700 - 05 23 23	1457					
		ANALYTI	CAL SAMPI	LE RESULT	ſS			
		TCLP E	Extraction by	EPA 1311				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-002 (A3D1700-03)				Matrix: Concrete Batch: 23E0353			n: 23E0353	
TCLP Extraction	PREP			N/A	1	05/08/23 16:41	EPA 1311	

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Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002

Project Manager: Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		Hydr	ocarbon I	dentificat	ion Scree	en by NW	IPH-HCI	D				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0068 - NWTPH-HCID	(Soil)						Sol	id				
Blank (23E0068-BLK1)			Prepare	d: 05/02/23	07:22 Ana	lyzed: 05/03	/23 02:08					
NWTPH-HCID												
Gasoline Range Organics	ND		20.0	mg/kg	1							
Diesel Range Organics	ND		50.0	mg/kg	1							
Oil Range Organics	ND		100	mg/kg	1							
Surr: o-Terphenyl (Surr)		Reco	very: 85 %	Limits: 50)-150 %	Dilt	ution: 1x					
4-Bromofluorobenzene (Surr)			84 %	50	-150 %		"					
Duplicate (23E0068-DUP1)			Prepare	d: 05/02/23	07:22 Ana	lyzed: 05/03	/23 03:18					
QC Source Sample: Ink-S-001 (A3 NWTPH-HCID	3D1700-02)											
Gasoline Range Organics	DET		19.1	mg/kg	1		ND				30%	F-13
Diesel Range Organics	DET		47.7	mg/kg	1		ND				30%	F-1.
Oil Range Organics	DET		95.3	mg/kg	1		ND				30%	F-13
Surr: o-Terphenyl (Surr)		Reco	very: 88 %	Limits: 50)-150 %	Dilt	ution: 1x					
4-Bromofluorobenzene (Surr)			81 %	50	-150 %		"					
Batch 23E0098 - EPA 3510C (F	uels/Acid	l Ext.)					Wa	ter				
Blank (23E0098-BLK1)			Prepare	d: 05/02/23	14:40 Ana	lyzed: 05/02	/23 21:26					
NWTPH-HCID												
Gasoline Range Organics	ND		0.100	mg/L	1							
Diesel Range Organics	ND		0.250	mg/L	1							
Oil Range Organics	ND		0.250	mg/L	1							
Surr: o-Terphenyl (Surr)		Reco	very: 90 %	Limits: 50	0-150 %	Dilt	ution: 1x					
4-Bromofluorobenzene (Surr)			46 %	10	-120 %		"					

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Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/c	or Oil Hyd	rocarbor	IS by NW1	TPH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0378 - EPA 3546 (Fi	uels)						Sol	id				
Blank (23E0378-BLK1)			Prepared	1: 05/09/23 (09:45 Anal	lyzed: 05/09/	/23 23:26					
NWTPH-Dx												
Diesel	ND		20.0	mg/kg	1							
Oil	ND		40.0	mg/kg	1							
Surr: o-Terphenyl (Surr)		Reco	overy: 99 %	Limits: 50)-150 %	Dilı	ution: 1x					
LCS (23E0378-BS1)			Prepared	1: 05/09/23 (09:45 Anal	lyzed: 05/09/	/23 23:47					
NWTPH-Dx												
Diesel	126		20.0	mg/kg	1	125		101	38-132%			
Surr: o-Terphenyl (Surr)		Reco	overy: 99 %	Limits: 50)-150 %	Dilı	ution: 1x					
Duplicate (23E0378-DUP1)			Prepared	1: 05/09/23 (09:45 Anal	lyzed: 05/10/	/23 00:48					
QC Source Sample: Ink-S-001 (A	<u>3D1700-02R</u>	<u>'E1)</u>										
<u>NWTPH-Dx</u>							•					
Diesel	ND		3820	mg/kg	100		ND				30%	_
Oil	10300		7640	mg/kg	100		4570			77	30%	F-13, Q-1
Surr: o-Terphenyl (Surr)		R	ecovery: %	Limits: 50	-150 %	Dilı	ution: 100x					S-01

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Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project: <u>Blue Heron Paper Mill</u> Project Number: M0496.01.002

Project Manager: Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

AnalyteResultDetection LimitReporting LimitSpike UnitsSource AmountResultBatch 23E0310 - EPA 5035AScBatch 23E0310 - EPA 5035AScBatch 23E0310 - EPA 5035AScBatch 23E0310 - BLK1)Prepared: 05/08/23 08:11Analyzed: 05/08/23 10:15Surret 4.Bromofluorobenzene (Sur)Recovery: 102 %Limits: 50-150 %Dilution: 1x1.4-Difluorobenzene (Sur)Recovery: 102 %Limits: 50-150 %Tilution: 1x1.4-Difluorobenzene (Sur)104 %50-150 %"LCS (23E0310-BS2)Prepared: 05/08/23 08:11Analyzed: 05/08/23 09:45Surr: 4-Bromofluorobenzene (Sur)Recovery: 104 %Limits: 50-150 %Dilution: 1x1.4-Difluorobenzene (Sur)Recovery: 104 %Limits: 50-150 %Dilution: 1x1.4-Difluorobenzene (Sur)Recovery: 104 %Limits: 50-150 %Dilution: 1x1.4-Difluorobenzene (Sur)104 %50-150 %"Duplicate (23E0310-DUP1)Prepared: 05/05/23 11:57Analyzed: 05/08/23 11:06OC Source Sample: Non-SDG (A3E1080-01)Recovery: 102 %Limits: 50-150 %Dilution: 1x1.4-Difluorobenzene (Sur)104 %50-150 %"Tilution: 1x1.4-Difluorobenzene (Sur)Recovery: 102 %Limits: 50-150 %Dilution: 1x1.4-Difluorobenzene (Sur)Recovery: 102 %Limits: 50-150 %Dilution: 1x1.4-Difluorobenzene (Sur)Recovery: 102 %Limits: 50-150 %Tilution: 1x1.4-Difluorobenzene (Sur)Recovery: 102 %Limits: 50-150 %<) by NWTF	PH-Gx	-		
Batch 23E0310 - EPA 5035A Sc Blank (23E0310-BLK1) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 10:15 NUTPH-Gx (MS) Gasoline Range Organics ND 5.00 mg/kg wet 50 Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1.4-Difluorobenzene (Sur) 104 % 50-150 % Dilution: 1x I.4-Difluorobenzene (Sur) 104 % 50-150 % m Surr: 4-Bromofluorobenzene (Sur) 104 % 50-150 % m Surr: 4-Bromofluorobenzene (Sur) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 09:45 Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % Dilution: 1x I.4-Difluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % m Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % m m Duplicate (23E0310-DUP1) Prepared: 05/05/23 11:57 Analyzed: 05/08/23 11:06 M Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % m MD sasoline Range Organics ND <th>, % REC</th> <th>% REC Limits</th> <th>RPD</th> <th>RPD Limit</th> <th>Notes</th>	, % REC	% REC Limits	RPD	RPD Limit	Notes
Blank (23E0310-BLK1) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 10:15 NWTPH-Gx (MS) Gasoline Range Organics ND 5.00 mg/kg wet 50 Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: Ix I.4-Difluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % 05/08/23 09:45 NUTPH-Gx (MS) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 09:45 Surr: 4-Bromofluorobenzene (Sur) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 09:45 Surr: 4-Bromofluorobenzene (Sur) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 09:45 Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Surr: 50 25.0 Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Surr: 7 Analyzed: 05/08/23 11:06 QC Source Sample: Non-SDG (A3E1080-01) Recovery: 102 % Limits: 50-150 % m	oil				
NWTPH-Gx (MS) Gasoline Range Organics ND 5.00 mg/kg wet 50 Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " " LCS (23E0310-BS2) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 09:45 NWTPH-Gx (MS) Gasoline Range Organics 25.9 5.00 mg/kg wet 50 25.0 Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Recovery: 104 % 50-150 % " " Duplicate (23E0310-DUP1) Prepared: 05/05/23 11:57 Analyzed: 05/08/23 11:06 QC Source Sample: Non-SDG (A3E1080-01) Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Surr:					
Gasoline Range Organics ND 5.00 mg/kg wet 50 Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x I.4-Difluorobenzene (Sur) 104 % 50-150 % " " " LCS (23E0310-BS2) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 09:45 NWTPH-Gx (MS) Gasoline Range Organics 25.9 5.00 mg/kg wet 50 25.0 Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Recovery: 104 % 50-150 % milution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " milution: 1x Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150					
Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " LCS (23E0310-BS2) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 09:45 <u>NWTPH-Gx (MS)</u> Gasoline Range Organics 25.9 5.00 mg/kg wet 50 25.0 Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Not the solution: 1x 1,4-Difluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % The solution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " The solution: 1x 1,4-Difluorobenzene (Sur) Prepared: 05/05/23 11:57 Analyzed: 05/08/23 11:06 QC Source Sample: Non-SDG (A3E1080-01) Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) ND ND Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
1,4-Difluorobenzene (Sur) 104 % 50-150 % " LCS (23E0310-BS2) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 09:45 NWTPH-Gx (MS) Gasoline Range Organics 25.9 5.00 mg/kg wet 50 25.0 Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % Dilution: Ix 1,4-Difluorobenzene (Sur) Recovery: 104 % 50-150 % Dilution: Ix 1,4-Difluorobenzene (Sur) 104 % 50-150 % Dilution: Ix 1,4-Difluorobenzene (Sur) 104 % 50-150 % " " Duplicate (23E0310-DUP1) Prepared: 05/05/23 11:57 Analyzed: 05/08/23 11:06 QC Source Sample: Non-SDG (A3E1080-01) Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: Ix 1,4-Difluorobenzene (Sur) 104 % 50-150 % " " Duplicate (23E0310-DUP2) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 <					
LCS (23E0310-BS2) Prepared: 05/08/23 08:11 Analyzed: 05/08/23 09:45 <u>NWTPH-Gx (MS)</u> Gasoline Range Organics 25.9 Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " Duplicate (23E0310-DUP1) Prepared: 05/05/23 11:57 Analyzed: 05/08/23 11:06 <u>QC Source Sample: Non-SDG (A3E1080-01)</u> Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " Surr: 4-Bromofluorobenzene (Sur) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 QC Source Sample: Non-SDG (A3E1112-01) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 Gasoline Range Organics ND 72.1 mg/kg dry 50 ND					
WWTPH-Gx (MS) Gasoline Range Organics 25.9 5.00 mg/kg wet 50 25.0 Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " " Duplicate (23E0310-DUP1) Prepared: 05/05/23 11:57 Analyzed: 05/08/23 11:06 QC Source Sample: Non-SDG (A3E1080-01) Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % " " Duplicate (23E0310-DUP2) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 QC Source Sample: Non-SDG (A3E1112-01) Gasoline Range Organics ND 72.1 mg/kg dry 50 ND <td></td> <td></td> <td></td> <td></td> <td></td>					
Gasoline Range Organics 25.9 5.00 mg/kg wet 50 25.0 Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " " Duplicate (23E0310-DUP1) Prepared: 05/05/23 11:57 Analyzed: 05/08/23 11:06 QC Source Sample: Non-SDG (A3E1080-01) Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " " " Duplicate (23E0310-DUP2) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 QC Source Sample: Non-SDG (A3E1112-01) Gasoline Range Organics ND 72.1 mg/kg dry 50 ND <td></td> <td></td> <td></td> <td></td> <td></td>					
Surr: 4-Bromofluorobenzene (Sur) Recovery: 104 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " " Duplicate (23E0310-DUP1) Prepared: 05/05/23 11:57 Analyzed: 05/08/23 11:06 QC Source Sample: Non-SDG (A3E1080-01) Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % " Duplicate (23E0310-DUP2) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 QC Source Sample: Non-SDG (A3E1112-01) Gasoline Range Organics ND 72.1 mg/kg dry 50 ND	103	80-120%			
1,4-Difluorobenzene (Sur) 104 % 50-150 % " Duplicate (23E0310-DUP1) Prepared: 05/05/23 11:57 Analyzed: 05/08/23 11:06 QC Source Sample: Non-SDG (A3E1080-01) Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: Ix 1,4-Difluorobenzene (Sur) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 QC Source Sample: Non-SDG (A3E1112-01) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 Gasoline Range Organics ND 72.1 mg/kg dry 50 ND					
Duplicate (23E0310-DUP1) Prepared: 05/05/23 11:57 Analyzed: 05/08/23 11:06 OC Source Sample: Non-SDG (A3E1080-01) Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: Ix 1,4-Difluorobenzene (Sur) 104 % 50-150 % " " Duplicate (23E0310-DUP2) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 OC Source Sample: Non-SDG (A3E1112-01) Gasoline Range Organics ND 72.1 mg/kg dry 50 ND					
OC Source Sample: Non-SDG (A3E1080-01) Gasoline Range Organics ND 6.57 mg/kg dry 50 ND Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x 1,4-Difluorobenzene (Sur) 104 % 50-150 % " Duplicate (23E0310-DUP2) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 QC Source Sample: Non-SDG (A3E1112-01) Gasoline Range Organics ND 72.1 mg/kg dry 50 ND					
Gasoline Range OrganicsND6.57mg/kg dry50NDSurr:4-Bromofluorobenzene (Sur)Recovery:102 %Limits:50-150 %Dilution:1x1,4-Difluorobenzene (Sur)104 %50-150 %""Duplicate (23E0310-DUP2)Prepared:05/04/23 17:43Analyzed:05/08/23 16:39QC Source Sample:Non-SDG (A3E1112-01)Gasoline Range OrganicsND72.1mg/kg dry50ND					
Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: Ix 1,4-Difluorobenzene (Sur) 104 % 50-150 % " " Duplicate (23E0310-DUP2) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 OC Source Sample: Non-SDG (A3E1112-01) Gasoline Range Organics ND 72.1 mg/kg dry 50 ND				30%	
I,4-Difluorobenzene (Sur) 104 % 50-150 % " Duplicate (23E0310-DUP2) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 QC Source Sample: Non-SDG (A3E1112-01) Gasoline Range Organics ND 72.1 mg/kg dry 50 ND					
Duplicate (23E0310-DUP2) Prepared: 05/04/23 17:43 Analyzed: 05/08/23 16:39 OC Source Sample: Non-SDG (A3E1112-01) Gasoline Range Organics ND 72.1 mg/kg dry 50 ND					
OC Source Sample: Non-SDG (A3E1112-01) Gasoline Range Organics ND 72.1 mg/kg dry 50 ND			_	_	
Gasoline Range Organics ND 72.1 mg/kg dry 50 ND					
				30%	
Surr: 4-Bromofluorobenzene (Sur) Recovery: 108 % Limits: 50-150 % Dilution: 1x					
1,4-Difluorobenzene (Sur) 108 % 50-150 % "					

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Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

	1	1	Polychlor	inated B	iphenyls l	by EPA 80)82A	1				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0041 - EPA 3510C ((Neutral pH))					Wat	ter				
Blank (23E0041-BLK1)	_	_	Prepared	1: 05/01/23	11:27 Anal	yzed: 05/01/	/23 21:16	_	_	_	_	C-07
EPA 8082A												
Aroclor 1016	ND		0.100	ug/L	1							
Aroclor 1221	ND		0.100	ug/L	1							
Aroclor 1232	ND		0.100	ug/L	1							
Aroclor 1242	ND		0.100	ug/L	1							
Aroclor 1248	ND		0.100	ug/L	1							
Aroclor 1254	ND		0.100	ug/L	1							
Aroclor 1260	ND		0.100	ug/L	1							
Surr: Decachlorobiphenyl (Surr)		Recu	wery: 83 %	Limits: 4(0-135 %	Dilu	ution: 1x					
LCS (23E0041-BS1)			Prepared	: 05/01/23	11:27 Anal	yzed: 05/01/	/23 21:35					C-07
<u>EPA 8082A</u>												
Aroclor 1016	1.48		0.100	ug/L	1	2.50		59	46-129%			
Aroclor 1260	1.75		0.100	ug/L	1	2.50		70	45-134%			
Surr: Decachlorobiphenyl (Surr)		Reco	wery: 64 %	Limits: 40)-135 %	Dilu	ution: 1x					
LCS Dup (23E0041-BSD1)			Prepared	: 05/01/23	11:27 Anal	yzed: 05/01/	/23 21:53					C-07, Q-19
EPA 8082A												
Aroclor 1016	1.53		0.100	ug/L	1	2.50		61	46-129%	3	30%	
Aroclor 1260	1.87		0.100	ug/L	1	2.50		75	45-134%	7	30%	
Surr: Decachlorobiphenyl (Surr)		Reco	very: 79 %	Limits: 40	7-135 %	Dilu	ution: 1x					

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Philip Nerenberg, Lab Director



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Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlo	rinated Bi	phenyls	by EPA 80)82A					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0083 - EPA 3546							Sol	lid				
Blank (23E0083-BLK1)			Preparec	1: 05/02/23	10:07 Ana	lyzed: 05/02	/23 21:12					C-07
EPA 8082A												
Aroclor 1016	ND		50.0	ug/kg	1							
Aroclor 1221	ND		50.0	ug/kg	1							
Aroclor 1232	ND		50.0	ug/kg	1							
Aroclor 1242	ND		50.0	ug/kg	1							
Aroclor 1248	ND		50.0	ug/kg	1							
Aroclor 1254	ND		50.0	ug/kg	1							
Aroclor 1260	ND		50.0	ug/kg	1							
Surr: Decachlorobiphenyl (Surr)		Reco	very: 112 %	Limits: 60)-125 %	Dilı	ution: 1x					
LCS (23E0083-BS1)			Preparec	1: 05/02/23	10:07 Ana	lyzed: 05/02	/23 21:30					C-07
EPA 8082A			-									
Aroclor 1016	956		50.0	ug/kg	1	1250		76	47-134%			
Aroclor 1260	1130		50.0	ug/kg	1	1250		90	53-140%			
Surr: Decachlorobiphenyl (Surr)		Reco	very: 112 %	Limits: 60)-125 %	Dilı	ution: 1x					
Duplicate (23E0083-DUP1)			Preparec	1: 05/02/23	10:07 Ana	lyzed: 05/02	/23 22:25					C-07
QC Source Sample: Ink-S-001 (A	<u>3D1700-02)</u>											
<u>EPA 8082A</u>												
Aroclor 1016	ND		71.7	ug/kg	2		ND				30%	
Aroclor 1221	ND		71.7	ug/kg	2		ND				30%	
Aroclor 1232	ND		71.7	ug/kg	2		ND				30%	
Aroclor 1242	ND		71.7	ug/kg	2		ND				30%	
Aroclor 1248	ND		71.7	ug/kg	2		ND				30%	
Aroclor 1254	ND		71.7	ug/kg	2		ND				30%	
Aroclor 1260	ND		71.7	ug/kg	2		ND				30%	
Surr: Decachlorobiphenyl (Surr)		Reco	very: 119 %	Limits: 60)-125 %	Dilı	ution: 2x					
Matrix Spike (23E0083-MS1)			Preparec	1: 05/02/23	10:07 Ana	lyzed: 05/02	/23 23:37					C-07
OC Source Sample: Ink-S-002 (A	<u>3D1700-03)</u>											
EPA 8082A												
Aroclor 1016	765		76.0	ug/kg	2	951	ND	80	47-134%			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul	F	oster	&	Along	i,	INC.

3140 NE Broadway Street Portland, OR 97232 Project: <u>Blue Heron Paper Mill</u> Project Number: M0496.01.002

Project Manager: Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlor	inated B	iphenyls I	by EPA 80	182A					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits RF	Rł D Lir.	'D nit 1	Notes
Batch 23E0083 - EPA 3546							Soli	d				
Matrix Spike (23E0083-MS1)			Prepared	: 05/02/23	10:07 Anal	yzed: 05/02/	/23 23:37					C-07
QC Source Sample: Ink-S-002 (A3	3D1700-03)											
Surr: Decachlorobiphenyl (Surr)		Recov	very: 117 %	Limits: 6	0-125 %	Dilu	ution: 2x					-

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Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

L					1.241	· , ,						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							Sol	id				
Blank (23E0084-BLK1)			Prepared	: 05/02/23	10:09 Anal	yzed: 05/02/	23 17:56					
EPA 8270E												
Acenaphthene	ND		2.67	ug/kg	1							
Acenaphthylene	ND		2.67	ug/kg	1							
Anthracene	ND		2.67	ug/kg	1							
Benz(a)anthracene	ND		2.67	ug/kg	1							
Benzo(a)pyrene	ND		4.00	ug/kg	1							
Benzo(b)fluoranthene	ND		4.00	ug/kg	1							B-0
Benzo(k)fluoranthene	ND		4.00	ug/kg	1							
Benzo(g,h,i)perylene	ND		2.67	ug/kg	1							
Chrysene	ND		2.67	ug/kg	1							
Dibenz(a,h)anthracene	ND		2.67	ug/kg	1							
Fluoranthene	ND		2.67	ug/kg	1							
Fluorene	ND		2.67	ug/kg	1							
Indeno(1,2,3-cd)pyrene	ND		2.67	ug/kg	1							
1-Methylnaphthalene	ND		5.33	ug/kg	1							
2-Methylnaphthalene	ND		5.33	ug/kg	1							
Naphthalene	ND		5.33	ug/kg	1							
Phenanthrene	ND		2.67	ug/kg	1							
Pyrene	ND		2.67	ug/kg	1							
Carbazole	ND		4.00	ug/kg	1							
Dibenzofuran	ND		2.67	ug/kg	1							
2-Chlorophenol	ND		13.3	ug/kg	1							
4-Chloro-3-methylphenol	ND		26.7	ug/kg	1							
2,4-Dichlorophenol	ND		13.3	ug/kg	1							
2,4-Dimethylphenol	ND		13.3	ug/kg	1							
2,4-Dinitrophenol	ND		66.7	ug/kg	1							
4,6-Dinitro-2-methylphenol	ND		66.7	ug/kg	1							
2-Methylphenol	ND		6.67	ug/ko	1							
3+4-Methylphenol(s)	ND		6.67	ug/ko	1							
2-Nitrophenol	ND		26.7	110/ka	1							
4-Nitrophenol	ND		26.7	110/km	1							
Pentachloronhenol (PCP)	ND		26.7	110/kg	1							
Phenol			5 22	ug/Kg	1							
1 101101 2 2 4 6 Totmoshlan 1			J.JJ 12 2	ug/Kg	1							

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Philip Nevenberg


6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002

Project Manager: Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile	Organic	Compour	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							Sol	id				
Blank (23E0084-BLK1)			Prepared	: 05/02/23	10:09 Ana	lyzed: 05/02/	/23 17:56					
2,3,5,6-Tetrachlorophenol	ND		13.3	ug/kg	1							
2,4,5-Trichlorophenol	ND		13.3	ug/kg	1							
2,4,6-Trichlorophenol	ND		13.3	ug/kg	1							
Bis(2-ethylhexyl)phthalate	ND		40.0	ug/kg	1							
Butyl benzyl phthalate	ND		26.7	ug/kg	1							
Diethylphthalate	ND		26.7	ug/kg	1							
Dimethylphthalate	ND		26.7	ug/kg	1							
Di-n-butylphthalate	ND		26.7	ug/kg	1							
Di-n-octyl phthalate	ND		26.7	ug/kg	1							
N-Nitrosodimethylamine	ND		6.67	ug/kg	1							
N-Nitroso-di-n-propylamine	ND		6.67	ug/kg	1							
N-Nitrosodiphenylamine	ND		6.67	ug/kg	1							
Bis(2-Chloroethoxy) methane	ND		6.67	ug/kg	1							
Bis(2-Chloroethyl) ether	ND		6.67	ug/kg	1							
2,2'-Oxybis(1-Chloropropane)	ND		6.67	ug/kg	1							
Hexachlorobenzene	ND		2.67	ug/kg	1							
Hexachlorobutadiene	ND		6.67	ug/kg	1							
Hexachlorocyclopentadiene	ND		13.3	ug/kg	1							
Hexachloroethane	ND		6.67	ug/kg	1							
2-Chloronaphthalene	ND		2.67	ug/kg	1							
1,2,4-Trichlorobenzene	ND		6.67	ug/kg	1							
4-Bromophenyl phenyl ether	ND		6.67	ug/kg	1							
4-Chlorophenyl phenyl ether	ND		6.67	ug/kg	1							
Aniline	ND		13.3	ug/kg	1							
4-Chloroaniline	ND		6.67	ug/kg	1							
2-Nitroaniline	ND		53.3	ug/kg	1							
3-Nitroaniline	ND		53.3	ug/kg	1							
4-Nitroaniline	ND		53.3	ug/kg	1							
Nitrobenzene	ND		26.7	ug/kg	1							
2,4-Dinitrotoluene	ND		26.7	ug/kg	1							
2,6-Dinitrotoluene	ND		26.7	ug/kg	1							
Benzoic acid	ND		333	ug/kg	1							
Benzyl alcohol	ND		13.3	ug/kg	1							
Isophorone	ND		6.67	ug/kø	1							
	1.0		0.07	ч <u>ь</u> , к <u>ь</u>								

Apex Laboratories

Philip Nevenberg



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile	Organic	Compour	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							So	lid				
Blank (23E0084-BLK1)			Prepareo	d: 05/02/23	10:09 Ana	lyzed: 05/02	/23 17:56					
Azobenzene (1,2-DPH)	ND		6.67	ug/kg	1							
Bis(2-Ethylhexyl) adipate	ND		66.7	ug/kg	1							
3,3'-Dichlorobenzidine	ND		53.3	ug/kg	1							Q-5
1,2-Dinitrobenzene	ND		66.7	ug/kg	1							
1,3-Dinitrobenzene	ND		66.7	ug/kg	1							
1,4-Dinitrobenzene	ND		66.7	ug/kg	1							
Pyridine	ND		13.3	ug/kg	1							
1,2-Dichlorobenzene	ND		6.67	ug/kg	1							
1,3-Dichlorobenzene	ND		6.67	ug/kg	1							
1,4-Dichlorobenzene	ND		6.67	ug/kg	1							
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 78 %	Limits: 37	7-122 %	Dilı	ution: 1x					
2-Fluorobiphenyl (Surr)			91 %	44	4-120 %		"					
Phenol-d6 (Surr)			83 %	33	8-122 %		"					
p-Terphenyl-d14 (Surr)			111 %	54	4-127 %		"					
2-Fluorophenol (Surr)			85 %	35	5-120 %		"					
2,4,6-Tribromophenol (Surr)			96 %	39	0-132 %		"					Q-41
LCS (23E0084-BS1)			Prepareo	1: 05/02/23	10:09 Ana	lyzed: 05/02	/23 18:31					Q-18
EPA 8270E												
Acenaphthene	498		10.7	ug/kg	4	533		93	40-123%			
Acenaphthylene	515		10.7	ug/kg	4	533		97	32-132%			
Anthracene	520		10.7	ug/kg	4	533		98	47-123%			
Benz(a)anthracene	492		10.7	ug/kg	4	533		92	49-126%			
Benzo(a)pyrene	469		16.0	ug/kg	4	533		88	45-129%			
Benzo(b)fluoranthene	455		16.0	ug/kg	4	533		85	45-132%			В-0
Benzo(k)fluoranthene	468		16.0	ug/kg	4	533		88	47-132%			
Benzo(g,h,i)perylene	532		10.7	ug/kg	4	533		100	43-134%			
Chrysene	495		10.7	ug/kg	4	533		93	50-124%			
Dibenz(a,h)anthracene	502		10.7	ug/kg	4	533		94	45-134%			
Fluoranthene	537		10.7	ug/kg	4	533		101	50-127%			
Fluorene	535		10.7	ug/kg	4	533		100	43-125%			
Indeno(1,2,3-cd)pvrene	475		10.7	ug/kg	4	533		89	45-133%			
1-Methylnaphthalene	519		21.3	110/ko	4	533		97	40-120%			
2-Methylnanhthalene	548		21.3	110/kg	4	533		103	38-122%			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile	Organic	Compoun	nds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							So	lid				
LCS (23E0084-BS1)			Prepared	: 05/02/23	10:09 Anal	lyzed: 05/02	/23 18:31					Q-18
Naphthalene	493		21.3	ug/kg	4	533		92	35-123%			
Phenanthrene	494		10.7	ug/kg	4	533		93	50-121%			
Pyrene	535		10.7	ug/kg	4	533		100	47-127%			
Carbazole	568		16.0	ug/kg	4	533		107	50-123%			
Dibenzofuran	539		10.7	ug/kg	4	533		101	44-120%			
2-Chlorophenol	485		53.2	ug/kg	4	533		91	34-121%			
4-Chloro-3-methylphenol	542		107	ug/kg	4	533		102	45-122%			
2,4-Dichlorophenol	575		53.2	ug/kg	4	533		108	40-122%			
2,4-Dimethylphenol	624		53.2	ug/kg	4	533		117	30-127%			
2,4-Dinitrophenol	727		267	ug/kg	4	533		136	10-137%			Q-4
4,6-Dinitro-2-methylphenol	757		267	ug/kg	4	533		142	29-132%			Q-29, Q-4
2-Methylphenol	505		26.7	ug/kg	4	533		95	32-122%			
3+4-Methylphenol(s)	507		26.7	ug/kg	4	533		95	34-120%			
2-Nitrophenol	609		107	ug/kg	4	533		114	36-123%			
4-Nitrophenol	583		107	ug/kg	4	533		109	30-132%			
Pentachlorophenol (PCP)	602		107	ug/kg	4	533		113	25-133%			
Phenol	507		21.3	ug/kg	4	533		95	34-121%			
2,3,4,6-Tetrachlorophenol	595		53.2	ug/kg	4	533		112	44-125%			
2,3,5,6-Tetrachlorophenol	612		53.2	ug/kg	4	533		115	40-120%			Q-4
2,4,5-Trichlorophenol	601		53.2	ug/kg	4	533		113	41-124%			
2,4,6-Trichlorophenol	553		53.2	ug/kg	4	533		104	39-126%			
Bis(2-ethylhexyl)phthalate	460		160	ug/kg	4	533		86	51-133%			
Butyl benzyl phthalate	481		107	ug/kg	4	533		90	48-132%			
Diethylphthalate	513		107	ug/kg	4	533		96	50-124%			
Dimethylphthalate	530		107	ug/kg	4	533		99	48-124%			
Di-n-butylphthalate	516		107	ug/kg	4	533		97	51-128%			
Di-n-octvl phthalate	413		107	ug/kg	4	533		77	45-140%			
N-Nitrosodimethylamine	388		26.7	ug/kg	4	533		73	23-120%			
N-Nitroso-di-n-propylamine	448		26.7	ug/kg	4	533		84	36-120%			
N-Nitrosodiphenvlamine	518		26.7	ug/kg	4	533		97	38-127%			
Bis(2-Chloroethoxy) methane	473		26.7	110/ko	4	533		89	36-121%			
Bis(2-Chloroethyl) ether	423		26.7	110/ka	4	533		79	31-120%			
2 2'-Oxybis(1-Chloropropage)	362		26.7	110/kg	т 4	533		68	39_120%			0-3
Hevachlorobenzene	512		10.7	ug/kg	т 1	522		96	45_12070			X
IICAACHIOIOUEHZEHE	515		10.7	ug/kg	4	555		90	+J-12270			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							So	id				
LCS (23E0084-BS1)			Prepared	1: 05/02/23	10:09 Anal	yzed: 05/02/	/23 18:31					Q-18
Hexachlorobutadiene	517		26.7	ug/kg	4	533		97	32-123%			
Hexachlorocyclopentadiene	705		53.2	ug/kg	4	533		132	10-140%			
Hexachloroethane	481		26.7	ug/kg	4	533		90	28-120%			
2-Chloronaphthalene	528		10.7	ug/kg	4	533		99	41-120%			
,2,4-Trichlorobenzene	510		26.7	ug/kg	4	533		96	34-120%			
-Bromophenyl phenyl ether	532		26.7	ug/kg	4	533		100	46-124%			
-Chlorophenyl phenyl ether	552		26.7	ug/kg	4	533		104	45-121%			
Aniline	399		53.2	ug/kg	4	533		75	10-120%			
4-Chloroaniline	411		26.7	ug/kg	4	533		77	17-120%			
2-Nitroaniline	555		213	ug/kg	4	533		104	44-127%			
3-Nitroaniline	554		213	ug/kg	4	533		104	33-120%			Q-
4-Nitroaniline	564		213	ug/kg	4	533		106	51-125%			
Nitrobenzene	450		107	ug/kg	4	533		84	34-122%			
2,4-Dinitrotoluene	569		107	ug/kg	4	533		107	48-126%			
2,6-Dinitrotoluene	536		107	ug/kg	4	533		101	46-124%			
Benzoic acid	954		668	ug/kg	4	1070		89	10-140%			
Benzyl alcohol	483		53.2	ug/kg	4	533		91	29-122%			
sophorone	468		26.7	ug/kg	4	533		88	30-122%			
Azobenzene (1,2-DPH)	443		26.7	ug/kg	4	533		83	39-125%			
Bis(2-Ethylhexyl) adipate	457		267	ug/kg	4	533		86	61-121%			
3,3'-Dichlorobenzidine	1820		213	ug/kg	4	1070		170	22-121%			Q-29, Q-
,2-Dinitrobenzene	561		267	ug/kg	4	533		105	44-120%			
,3-Dinitrobenzene	602		267	ug/kg	4	533		113	43-127%			Q-
,4-Dinitrobenzene	598		267	ug/kg	4	533		112	37-132%			
Pyridine	427		53.2	ug/kg	4	533		80	10-120%			
,2-Dichlorobenzene	472		26.7	ug/kg	4	533		88	33-120%			
,3-Dichlorobenzene	480		26.7	ug/kg	4	533		90	30-120%			
,4-Dichlorobenzene	469		26.7	ug/kg	4	533		88	31-120%			
Surr: Nitrobenzene-d5 (Surr)		Recov	very: 85 %	Limits: 37	7-122 %	Dilı	ution: 4x					
2-Fluorobiphenyl (Surr)			99 %	44	-120 %		"					
Phenol-d6 (Surr)			90 %	33	-122 %		"					
p-Terphenvl-d14 (Surr)			103 %	.54	-127 %		"					
2-Fluorophenol (Surr)			88 %	35	-120 %		"					
2 1 6 Tuibuou and and (Current			122 0/	20	127 0/		"					0.41

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Philip Nevenberg



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Mail Note: Reside in the second part of the secon													
310 NE Broadway Street Porject Namage: Project Namage: Jacob Faust Renort ID: AJD1700 - 05 23 23 1457 Porland, OR 9723 CULLITY CONTROL (QC) SAMPLE RESULTS Second Paust Second Paust Renort ID: AJD1700 - 05 23 23 1457 OULLITY CONTROL (QC) SAMPLE RESULTS Second Paust Second Paust Renort ID: Result Detection Reporting Limit Unit Dilution Spike Amount Source Second Paust % REC Limit RPD Notes Batch 23E0084 - EPA 3546 Detection Reporting Limit Unit Dilution Spike Amalyzed: Source % REC Limit Notes Construct (23E0084-DUPI) Prepared: 05/02/23 10-09 Analyzed: Source % REC Renort ID: Limit Notes Extraction ND Source Source ND 30% Construct Sample: IuleS-601 (A3D1700-02) Extraction ND 30% Accemaphthene ND ND 30% Accemaphthylene ND <th><u>Maul Foster & Alongi, INC.</u></th> <th></th> <th></th> <th></th> <th>Project:</th> <th>Blue He</th> <th>ron Paper l</th> <th>Mill</th> <th></th> <th></th> <th></th> <th></th> <th></th>	<u>Maul Foster & Alongi, INC.</u>				Project:	Blue He	ron Paper l	Mill					
A3D1700 - 05 23 23 1457 CUALITY CONTROL (QC) SAMPLE RESULTS CUALITY CONTROL (QC) SAMPLE RESULTS Analyte Semi-official Organic Compounds by EPA 8270E Analyte Semi-official Organic Compounds by EPA 8270E Batch 23E0084 - DEPA 5546 Solid Solid Duplicate (23E0084-DUP1) Prepared: 05/02/23 10:09 Analyte: 05/02/23 19:42 % REC % REC % REC % REC % REC % REC ND Duplicate (23E0084-DUP1) Prepared: 05/02/23 10:09 Analyte: 05/02/23 19:42 Result % REC	3140 NE Broadway Street			Pro	ject Numbe	er: M0496.	01.002				ŀ	Report ID:	<u>.</u>
QUALITY CONTROL (QC) SAMPLE RESULTS Semivolatile Organic Compounds by EPA 8270E Analyte Detection Result Reporting Limit Units Dilution Spike Amount Secult % REC KEV RPD Limit Notes Batch 23E0084 - EPA 3546 Solid Duplicate (23E0084-DUP1) Prepared: 05/02/23 10-09 Analyzed: 05/02/23 19-42 Result % REC % REC RPD Limit Notes Colspan="6">Solid Other Case004 - EPA 3546 Other Case004 - EPA 3546 Detection 10% 22/23 10-09 Analyzed: 05/02/23 19-42 Result Result Accmaphtlence ND	Portland, OR 97232			Proj	ject Manage	er: Jacob F	aust			A	3D1700	- 05 23 23	3 1457
Semivolatile Organic Compounds by EPA 8270E Analyte Detection Limit Reporting Limit Units Dibition Spike Amount Source Result % REC RPD RPD Notes Batch 23E0084 - EPA 3546 50id 50id 50id 50id 8000 <			OU	ALITY CO	ONTROL	. (OC) SA	MPLE R	RESULTS	6				
Analyte Detection Result Result Dilution Limit Spike Limit Spike Dilution Source Annount % REC RPD Limit RPD Result RPD Limit Notes Batch 23E0084 - EPA 3546 Solid Solid Solid Solid Result % REC Limit Notes OC Source Sample: Ink-S-001 (A3D1700-02) EFAST0E Prepared: 05/02/23 10:09 Analyzed: 05/02/23 19:42 R-04 OC Source Sample: Ink-S-001 (A3D1700-02) EFAST0E Prepared: 05/02/23 10:09 Analyzed: 05/02/23 19:42 R-04 OC Source Sample: Ink-S-001 (A3D1700-02) EFAST0E Prepared: 05/02/23 10:09 Analyzed: 05/02/23 19:42 R-04 OC Source Sample: Ink-S-001 (A3D1700-02) EFAST0E EFAST0E Solid Solid Solid Accemaphthylene ND 2610 ug/kg 400 ND 30% Benzo(h)fluoranthene ND 3910 ug/kg 400 ND 30% Benzo(h)fluoranthene ND 3910 ug/kg 400 ND <			Se	mivolatile	Organic (Compour	ds by EP	A 8270E					
Analyte Detection Limit Reporting Limit Notes Spike Annount Source Result % REC M RED RPD Limit Notes Bate 256084 - EPA 3546 Source Source Source Source % REC Limit Notes Duplicate (23E0084 - DEPA 3546 Prepared: 05/02/23 10:09 Analyzed: 05/02/23 19:42 Ked Occsaurce Sample: IAMA Prepared: 05/02/23 10:09 Analyzed: 05/02/23 19:42 Ked Accmaphthen ND 2610 ug/kg 400 ND 30% Accmaphthylenc ND 2610 ug/kg 400 ND 30% Benze(a)untracene ND 2610 ug/kg 400 ND 30% Benze(A)fluoranthene ND 30% 30% 30% Benze					<u> </u>								
Batch 23E0084 - EPA 3548 Prepared: 05/02/23 10:09 Analyzed: 05/02/23 19:42 R-44 Duplicate (33E0084-DUP1) Prepared: 05/02/23 10:09 Analyzed: 05/02/23 19:42 R-44 Accanaphthylene ND 2610 ug/kg 400 ND 30% Accanaphthylene ND 2610 ug/kg 400 ND 30% Anthracene ND 2610 ug/kg 400 ND 30% Benzo(a)prene ND 2610 ug/kg 400 ND 30% Benzo(b)fluoranthene ND 3910 ug/kg 400 ND 30% Benzo(b)fluoranthene ND 2610 ug/kg 400 ND 30% Chrysene ND 2610 ug/kg 400	Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Duplicate (23E0084-DUP1) Prepared: 05/02/23 10:09 Analyzed: 05/02/23 19:42 R44 Cource Sample: Ink-S-001 (A3DT0002) 30% Exaszon 30% Acenaphthylene ND 2610 ug/kg 400 ND 30% Acenaphthylene ND 2610 ug/kg 400 ND 30% Benzo(a)pyrene ND 2610 ug/kg 400 ND 30% Benzo(A)pyrene ND 3910 ug/kg 400 ND 30% Benzo(A)fluoranthene ND 2610 ug/kg 400 ND 30% Chrysene ND 2610 ug/kg 4	Batch 23E0084 - EPA 3546							Sol	id				
OC Source Sample: Ink-S-001 (A3D1700-02) IPA 8270E Accnaphthene ND 2610 ug/kg 400 ND 30% Accnaphthene ND 2610 ug/kg 400 ND 30% Accnaphthylene ND 2610 ug/kg 400 ND 30% Benz(a)anthracene ND 2610 ug/kg 400 ND 30% Benzo(a)pyrene ND 2610 ug/kg 400 ND 30% Benzo(b)fluoranthene ND 3910 ug/kg 400 ND 30% Benzo(b)fluoranthene ND 2610 ug/kg 400 ND 30% Chrysene ND 2610 ug	Duplicate (23E0084-DUP1)			Prepared	: 05/02/23	10:09 Ana	vzed: 05/02	/23 19:42					R-04
EPAS270F Accenaphthene ND 2610 ug/kg 400 ND 30% Accenaphthylene ND 2610 ug/kg 400 ND 30% Anthracene ND 2610 ug/kg 400 ND 30% Benz(a)anthracene ND 2610 ug/kg 400 ND 30% Benza(b)fluoranthene ND 2610 ug/kg 400 ND 30% Benza(b)fluoranthene ND 3910 ug/kg 400 ND 30% Benza(b)fluoranthene ND 2610 ug/kg 400 ND 30% Dibenz(a,h)anthracene ND 2610 ug/kg 400	OC Source Sample: Ink-S-001 (A	A3D1700-02)		1			•						
AccanaphtheneND 2610 ug/kg 400 ND 30% AccnaphthyleneND 2610 ug/kg 400 ND 30% AnthraceneND 2610 ug/kg 400 ND 30% Benz(a)anthraceneND 2610 ug/kg 400 ND 30% Benz(a)pyreneND 3910 ug/kg 400 ND 30% Benzo(k)fluorantheneND 3910 ug/kg 400 ND 30% Benzo(k)fluorantheneND 3910 ug/kg 400 ND 30% Benzo(k)fluorantheneND 2610 ug/kg 400 ND 30% ChryseneND 2610 ug/kg 400 ND 30% FluorantheneND 2610 ug/kg 400 ND	EPA 8270E	<u> </u>											
AcenaphthyleneND 2610 ug/kg 400 ND 30% AnthraceneND 2610 ug/kg 400 ND 30% Benz(a)anthraceneND 2610 ug/kg 400 ND 30% Benz(a)pyreneND 3910 ug/kg 400 ND 30% Benzo(a)pyreneND 3910 ug/kg 400 ND 30% Benzo(b)fluorantheneND 3910 ug/kg 400 ND 30% Benzo(g),h)peryleneND 2610 ug/kg 400 ND 30% ChryseneND 2610 ug/kg 400 ND 30% FluorantheneND 2610 ug/kg 400 ND 30% FluorantheneND 2610 ug/kg 400 ND 30% Indeno(1,2,3-cd)pyreneND 2610 ug/kg 400 ND 30% Indeno(1,2,3-cd)pyreneND 2510 ug/kg 400 ND 30% Indeno(1,2,3-cd)pyreneND 2610 ug/kg 400 <	Acenaphthene	ND		2610	ug/kg	400		ND				30%	
AnthraceneND 2610 ug/kg 400 ND 30% Benz(a)anthraceneND 2610 ug/kg 400 ND 30% Benzo(a)pyreneND 3910 ug/kg 400 ND 30% Benzo(k)fluorantheneND 3910 ug/kg 400 ND 30% Benzo(k)fluorantheneND 3910 ug/kg 400 ND 30% Benzo(k)fluorantheneND 2610 ug/kg 400 ND 30% Benzo(a,h.)peryleneND 2610 ug/kg 400 ND 30% Dibenz(a,h)anthraceneND 2610 ug/kg 400 ND 30% FluoreneND 2610 ug/kg 400 ND 30% Indeno(1,2,3-cd)pyreneND 2610 ug/kg 400 ND 30% I-MethylnaphthaleneND 2610 ug/kg 400 ND 30% 2-MethylnaphthaleneND 2210 ug/kg 400 ND 30% PyreneND 2610	Acenaphthylene	ND		2610	ug/kg	400		ND				30%	
Benz(a)anthraceneND 2610 ug/kg 400 ND 30% Benzo(a)pyreneND 3910 ug/kg 400 ND 30% Benzo(b)fluorantheneND 3910 ug/kg 400 ND $$ 30% Benzo(k)fluorantheneND 3910 ug/kg 400 ND 30% Benzo(k)fluorantheneND 2610 ug/kg 400 ND 30% Benzo(k)fluorantheneND 2610 ug/kg 400 ND 30% ChryseneND 2610 ug/kg 400 ND 30% FluorantheneND 2610 ug/kg 400 ND 30% I-deto(1,2,3-cd)pyreneND 5210 ug/kg 400 ND 30% 2-MethylnaphthaleneND 5210 ug/kg 400	Anthracene	ND		2610	ug/kg	400		ND				30%	
Benzo(a)pyreneND3910ug/kg400ND30%Benzo(b)fluorantheneND3910ug/kg400ND30%Benzo(k)fluorantheneND3910ug/kg400ND30%Benzo(g,h,j)peryleneND2610ug/kg400ND30%ChryseneND2610ug/kg400ND30%Dibenz(a,h)anthraceneND2610ug/kg400ND30%FluorantheneND2610ug/kg400ND30%FluoreneND2610ug/kg400ND30%Indeno(1,2,3-cd)pyreneND2610ug/kg400ND30%2-MethylnaphthaleneND5210ug/kg400ND30%2-MethylnaphthaleneND5210ug/kg400ND30%NpreneND5210ug/kg400ND30%NpreneND5210ug/kg400ND30%Nprene	Benz(a)anthracene	ND		2610	ug/kg	400		ND				30%	
Benzo(b)fluorantheneND 3910 ug/kg 400 ND 30% Benzo(k)fluorantheneND 3910 ug/kg 400 ND 30% Benzo(g,h,)peryleneND 2610 ug/kg 400 ND 30% ChryseneND 2610 ug/kg 400 ND 30% Dibenz(a,h)anthraceneND 2610 ug/kg 400 ND 30% FluorantheneND 2610 ug/kg 400 ND 30% FluoreneND 2610 ug/kg 400 ND 30% FluoreneND 2610 ug/kg 400 ND 30% Indeno(1,2,3-cd)pyreneND 2610 ug/kg 400 ND 30% I-MethylnaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 2610 ug/kg 400 ND 30% NpreneND 2610 ug/kg 400 ND 30% PyreneND 2610 ug/kg 400 ND <td< td=""><td>Benzo(a)pyrene</td><td>ND</td><td></td><td>3910</td><td>ug/kg</td><td>400</td><td></td><td>ND</td><td></td><td></td><td></td><td>30%</td><td></td></td<>	Benzo(a)pyrene	ND		3910	ug/kg	400		ND				30%	
Benzo(k)fluorantheneND3910ug/kg400ND30%Benzo(g,h,i)peryleneND2610ug/kg400ND30%ChryseneND2610ug/kg400ND30%Dibenz(a,h)anthraceneND2610ug/kg400ND30%FluorantheneND2610ug/kg400ND30%FluoreneND2610ug/kg400ND30%Indeno(1,2,3-cd)pyreneND2610ug/kg400ND30%2-MethylnaphthaleneND2610ug/kg400ND30%2-MethylnaphthaleneND5210ug/kg400ND30%2-MethylnaphthaleneND5210ug/kg400ND30%PyreneND2610ug/kg400ND30%QuerteneND5210ug/kg400ND30%PyreneND2610ug/kg400ND30%CarbazoleND </td <td>Benzo(b)fluoranthene</td> <td>ND</td> <td></td> <td>3910</td> <td>ug/kg</td> <td>400</td> <td></td> <td>ND</td> <td></td> <td></td> <td></td> <td>30%</td> <td></td>	Benzo(b)fluoranthene	ND		3910	ug/kg	400		ND				30%	
Benzo(g,h,i)peryleneND 2610 ug/kg 400 ND $$ 30% ChryseneND 2610 ug/kg 400 ND $$ 30% Dibenz(a,h)anthraceneND 2610 ug/kg 400 ND $$ 30% FluorantheneND 2610 ug/kg 400 ND $$ 30% FluoreneND 2610 ug/kg 400 ND $$ 30% Indeno(1,2,3-cd)pyreneND 2610 ug/kg 400 ND $$ 30% 1-MethylnaphthaleneND 2610 ug/kg 400 ND $$ 30% 2-MethylnaphthaleneND 5210 ug/kg 400 ND $$ 30% NaphthaleneND 5210 ug/kg 400 ND $$ 30% NpreneND 5210 ug/kg 400 ND $$ $$ 30% NpreneND 2610 ug/kg 400 ND $$ $$ 30% PyreneND 2610 ug/kg 400 ND $$ $$ 30% OblenzofuranND 2610 ug/kg	Benzo(k)fluoranthene	ND		3910	ug/kg	400		ND				30%	
ChryseneND 2610 ug/kg 400 ND 30% Dibenz(a,h)anthraceneND 2610 ug/kg 400 ND 30% FluorantheneND 2610 ug/kg 400 ND 30% FluoreneND 2610 ug/kg 400 ND 30% Indeno(1,2,3-cd)pyreneND 2610 ug/kg 400 ND 30% 1-MethylnaphthaleneND 5210 ug/kg 400 ND 30% 2-MethylnaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 2610 ug/kg 400 ND 30% PyreneND 2610 ug/kg 400 ND 30% DibenzofuranND 2610 ug/kg 400 ND 30% 2-ChlorophenolND 13000 ug/kg 400 N	Benzo(g,h,i)perylene	ND		2610	ug/kg	400		ND				30%	
Dibenz(a,h)anthraceneND 2610 ug/kg 400 ND 30% FluorantheneND 2610 ug/kg 400 ND 30% FluoreneND 2610 ug/kg 400 ND 30% Indeno(1,2,3-cd)pyreneND 2610 ug/kg 400 ND 30% 1-MethylnaphthaleneND 5210 ug/kg 400 ND 30% 2-MethylnaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 2610 ug/kg 400 ND 30% PyreneND 2610 ug/kg 400 ND 30% DibenzofuranND 2610 ug/kg 400 ND 30% 2-ChlorophenolND 26100 ug/kg 400 ND 30% 2-ChlorophenolND 26100 ug/kg 400 <td>Chrysene</td> <td>ND</td> <td></td> <td>2610</td> <td>ug/kg</td> <td>400</td> <td></td> <td>ND</td> <td></td> <td></td> <td></td> <td>30%</td> <td></td>	Chrysene	ND		2610	ug/kg	400		ND				30%	
FluorantheneND 2610 ug/kg 400 ND $$ 30% FluoreneND 2610 ug/kg 400 ND 30% Indeno(1,2,3-cd)pyreneND 2610 ug/kg 400 ND 30% 1-MethylnaphthaleneND 5210 ug/kg 400 ND 30% 2-MethylnaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 5210 ug/kg 400 ND 30% NephthaleneND 5210 ug/kg 400 ND 30% NpreneND 2610 ug/kg 400 ND 30% CarbazoleND 2610 ug/kg 400 ND 30% DibenzofuranND 2610 ug/kg 400 ND 30% 2-ChlorophenolND 2610 ug/kg 400 ND 30% 2-ChlorophenolND 2610 ug/kg 400 ND 30% 2-ChlorophenolND 2610 ug/kg 400	Dibenz(a,h)anthracene	ND		2610	ug/kg	400		ND				30%	
FluoreneND 2610 ug/kg 400 ND 30% Indeno(1,2,3-cd)pyreneND 2610 ug/kg 400 ND 30% 1-MethylnaphthaleneND 5210 ug/kg 400 ND 30% 2-MethylnaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 5210 ug/kg 400 ND 30% PhenanthreneND 2610 ug/kg 400 ND 30% PyreneND 2610 ug/kg 400 ND 30% CarbazoleND 2610 ug/kg 400 ND 30% DibenzofuranND 2610 ug/kg 400 ND 30% 2-ChlorophenolND 2610 ug/kg 400 ND 30% 2-ChlorophenolND 2610 ug/kg 400 ND 30% 2-ChlorophenolND 26100 ug/kg 400 ND </td <td>Fluoranthene</td> <td>ND</td> <td></td> <td>2610</td> <td>ug/kg</td> <td>400</td> <td></td> <td>ND</td> <td></td> <td></td> <td></td> <td>30%</td> <td></td>	Fluoranthene	ND		2610	ug/kg	400		ND				30%	
Indeno(1,2,3-cd)pyreneND 2610 ug/kg 400 ND $$ 30% 1-MethylnaphthaleneND 5210 ug/kg 400 ND $$ 30% 2-MethylnaphthaleneND 5210 ug/kg 400 ND $$ 30% NaphthaleneND 5210 ug/kg 400 ND $$ 30% NaphthaleneND 5210 ug/kg 400 ND $$ 30% PhenanthreneND 2610 ug/kg 400 ND $$ 30% PyreneND 2610 ug/kg 400 ND $$ 30% CarbazoleND 3910 ug/kg 400 ND $$ 30% DibenzofuranND 2610 ug/kg 400 ND $$ 30% 2-ChlorophenolND 2610 ug/kg 400 ND $$ 30% 2-ChlorophenolND 26100 ug/kg 400 ND $$ 30% 2-ChlorophenolND 26100 ug/kg 400 ND $$ 30% 2-ChlorophenolND 26100 ug/kg 400 <t< td=""><td>Fluorene</td><td>ND</td><td></td><td>2610</td><td>ug/kg</td><td>400</td><td></td><td>ND</td><td></td><td></td><td></td><td>30%</td><td></td></t<>	Fluorene	ND		2610	ug/kg	400		ND				30%	
1-MethylnaphthaleneND 5210 ug/kg 400 ND $$ 30% 2-MethylnaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 5210 ug/kg 400 ND 30% PhenanthreneND 2610 ug/kg 400 ND 30% PyreneND 2610 ug/kg 400 ND 30% CarbazoleND 2610 ug/kg 400 ND 30% DibenzofuranND 2610 ug/kg 400 ND 30% 2-ChlorophenolND 2610 ug/kg 400 ND 30% 2-ChlorophenolND 2610 ug/kg 400 ND $$ 30% 2-ChlorophenolND 2610 ug/kg 400 ND $$ 30% 2-ChlorophenolND 26100 ug/kg 400 ND $$ 30% 2-ChlorophenolND 26100 ug/kg 400 ND $$ 30% 2-ChlorophenolND 26100 ug/kg 400 ND $$ 30%	Indeno(1,2,3-cd)pyrene	ND		2610	ug/kg	400		ND				30%	
2-MethylnaphthaleneND 5210 ug/kg 400 ND 30% NaphthaleneND 5210 ug/kg 400 ND $$ 30% PhenanthreneND 2610 ug/kg 400 ND $$ 30% PyreneND 2610 ug/kg 400 ND $$ 30% CarbazoleND 3910 ug/kg 400 ND $$ 30% DibenzofuranND 2610 ug/kg 400 ND $$ 30% 2-ChlorophenolND 2610 ug/kg 400 ND $$ 30% 4-Chloro-3-methylphenolND 26100 ug/kg 400 ND $$ 30% 2-ChlorophenolND 13000 ug/kg 400 ND $$ 30% 2-ChlorophenolND 26100 ug/kg 400 ND $$ 30% 2-ChlorophenolND 26100 ug/kg 400 ND $$ 30% 2-ChlorophenolND 26100 ug/kg 400 ND $$ $$ 30% 2-ChlorophenolND 26100 ug/kg 400	1-Methylnaphthalene	ND		5210	ug/kg	400		ND				30%	
Naphthalene ND 5210 ug/kg 400 ND 30% Phenanthrene ND 2610 ug/kg 400 ND 30% Pyrene ND 2610 ug/kg 400 ND 30% Carbazole ND 2610 ug/kg 400 ND 30% Dibenzofuran ND 2610 ug/kg 400 ND 30% 2-Chlorophenol ND 2610 ug/kg 400 ND 30% 2-Chlorophenol ND 2610 ug/kg 400 ND 30% 4-Chloro-3-methylphenol ND 26100 ug/kg 400 ND 30%	2-Methylnaphthalene	ND		5210	ug/kg	400		ND				30%	
Phenanthrene ND 2610 ug/kg 400 ND 30% Pyrene ND 2610 ug/kg 400 ND 30% Carbazole ND 3910 ug/kg 400 ND 30% Dibenzofuran ND 2610 ug/kg 400 ND 30% 2-Chlorophenol ND 2610 ug/kg 400 ND 30% 4-Chloro-3-methylphenol ND 26100 ug/kg 400 ND 30% 2.4-Dichlorophenol ND 26100 ug/kg 400 ND 30% 2.4-Dichlorophenol ND 13000 ug/kg 400 ND 30%	Naphthalene	ND		5210	ug/kg	400		ND				30%	
Pyrene ND 2610 ug/kg 400 ND 30% Carbazole ND 3910 ug/kg 400 ND 30% Dibenzofuran ND 2610 ug/kg 400 ND 30% 2-Chlorophenol ND 13000 ug/kg 400 ND 30% 4-Chloro-3-methylphenol ND 26100 ug/kg 400 ND 30% 2.4-Dichlorophenol ND 13000 ug/kg 400 ND 30%	Phenanthrene	ND		2610	ug/kg	400		ND				30%	
Carbazole ND 3910 ug/kg 400 ND 30% Dibenzofuran ND 2610 ug/kg 400 ND 30% 2-Chlorophenol ND 13000 ug/kg 400 ND 30% 4-Chloro-3-methylphenol ND 26100 ug/kg 400 ND 30% 2.4-Dichlorophenol ND 13000 ug/kg 400 ND 30%	Pyrene	ND		2610	ug/kg	400		ND				30%	
Dibenzofuran ND 2610 ug/kg 400 ND 30% 2-Chlorophenol ND 13000 ug/kg 400 ND 30% 4-Chloro-3-methylphenol ND 26100 ug/kg 400 ND 30% 2.4-Dichlorophenol ND 13000 ug/kg 400 ND 30%	Carbazole	ND		3910	ug/kg	400		ND				30%	
2-Chlorophenol ND 13000 ug/kg 400 ND 30% 4-Chloro-3-methylphenol ND 26100 ug/kg 400 ND 30% 2.4-Dichlorophenol ND 13000 ug/kg 400 ND 30%	Dibenzofuran	ND		2610	ug/kg	400		ND				30%	
4-Chloro-3-methylphenol ND 26100 ug/kg 400 ND 30% 2.4-Dichlorophenol ND 13000 ug/kg 400 ND 30%	2-Chlorophenol	ND		13000	ug/kg	400		ND				30%	
2.4-Dichlorophenol ND 13000 ug/kg 400 ND 30%	4-Chloro-3-methylphenol	ND		26100	ug/kg	400		ND				30%	
	2,4-Dichlorophenol	ND		13000	ug/kg	400		ND				30%	
2,4-Dimethylphenol ND 13000 ug/kg 400 ND 30%	2,4-Dimethylphenol	ND		13000	ug/kg	400		ND				30%	
2,4-Dinitrophenol ND 65200 ug/kg 400 ND 30%	2,4-Dinitrophenol	ND		65200	ug/kg	400		ND				30%	
4,6-Dinitro-2-methylphenol ND 65200 ug/kg 400 ND 30%	4,6-Dinitro-2-methylphenol	ND		65200	ug/kg	400		ND				30%	
2-Methylphenol ND 6520 ug/kg 400 ND 30%	2-Methylphenol	ND		6520	ug/kg	400		ND				30%	
3+4-Methylphenol(s) ND 6520 ug/kg 400 ND 30%	3+4-Methylphenol(s)	ND		6520	ug/kg	400		ND				30%	
2-Nitrophenol ND 26100 ug/kg 400 ND 30%	2-Nitrophenol	ND		26100	ug/kg	400		ND				30%	
4-Nitrophenol ND 26100 ug/kg 400 ND 30%	4-Nitrophenol	ND		26100	ug/kg	400		ND				30%	
Pentachlorophenol (PCP) ND 26100 ug/kg 400 ND 30%	Pentachlorophenol (PCP)	ND		26100	ug/kg	400		ND				30%	

Apex Laboratories

Philip Nevenberg



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

<u> </u>		Se	mivolatile (Organic (Compoun	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							Sol	lid				
Duplicate (23E0084-DUP1)			Prepared	: 05/02/23	10:09 Anal	yzed: 05/02	/23 19:42					R-04
QC Source Sample: Ink-S-001 (A.	3D1700-02)											
Phenol	ND		5210	ug/kg	400		ND				30%	
2,3,4,6-Tetrachlorophenol	ND		13000	ug/kg	400		ND				30%	
2,3,5,6-Tetrachlorophenol	ND		13000	ug/kg	400		6700			***	30%	Q-
2,4,5-Trichlorophenol	ND		13000	ug/kg	400		ND				30%	
2,4,6-Trichlorophenol	ND		13000	ug/kg	400		ND				30%	
3is(2-ethylhexyl)phthalate	ND		39100	ug/kg	400		ND				30%	
3utyl benzyl phthalate	ND		26100	ug/kg	400		ND				30%	
Diethylphthalate	ND		26100	ug/kg	400		ND				30%	
Dimethylphthalate	ND		26100	ug/kg	400		ND				30%	
Di-n-butylphthalate	ND		26100	ug/kg	400		ND				30%	
Di-n-octyl phthalate	ND		26100	ug/kg	400		ND				30%	
N-Nitrosodimethylamine	ND		6520	ug/kg	400		ND				30%	
N-Nitroso-di-n-propylamine	ND		6520	ug/kg	400		ND				30%	
N-Nitrosodiphenylamine	ND		6520	ug/kg	400		ND				30%	
Bis(2-Chloroethoxy) methane	ND		6520	ug/kg	400		ND				30%	
3is(2-Chloroethyl) ether	ND		6520	ug/kg	400		ND				30%	
2,2'-Oxybis(1-Chloropropane)	ND		6520	ug/kg	400		ND				30%	
Hexachlorobenzene	ND		2610	ug/kg	400		ND				30%	
Hexachlorobutadiene	ND		6520	ug/kg	400		ND				30%	
Hexachlorocyclopentadiene	ND		13000	ug/kg	400		ND				30%	
Hexachloroethane	ND		6520	ug/kg	400		ND				30%	
2-Chloronaphthalene	ND		2610	ug/kg	400		ND				30%	
,2,4-Trichlorobenzene	ND		6520	ug/kg	400		ND				30%	
I-Bromophenyl phenyl ether	ND		6520	ug/kg	400		ND				30%	
1-Chlorophenyl phenyl ether	ND		6520	ug/kg	400		ND				30%	
Aniline	ND		13000	ug/kg	400		ND				30%	
1-Chloroaniline	ND		6520	ug/kg	400		ND				30%	
2-Nitroaniline	ND		52100	ug/kg	400		ND				30%	
3-Nitroaniline	ND		52100	ug/kg	400		ND				30%	
1-Nitroaniline	ND		52100	ug/kø	400		ND				30%	
Nitrobenzene	ND		26100	us/ko	400		ND				30%	
2 4-Dinitrotoluene	ND		26100	110/kg	400		ND				30%	
2.6-Dinitrotoluene	ND		26100	ug/kg	400		ND				30%	

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Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile (Organic (Compour	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							Sol	id				
Duplicate (23E0084-DUP1)			Prepared	: 05/02/23	10:09 Ana	lyzed: 05/02	/23 19:42					R-04
QC Source Sample: Ink-S-001 (A	3D1700-02)											
Benzoic acid	ND		325000	ug/kg	400		ND				30%	
Benzyl alcohol	ND		13000	ug/kg	400		ND				30%	
Isophorone	ND		6520	ug/kg	400		ND				30%	
Azobenzene (1,2-DPH)	ND		6520	ug/kg	400		ND				30%	
Bis(2-Ethylhexyl) adipate	ND		65200	ug/kg	400		ND				30%	
3,3'-Dichlorobenzidine	ND		52100	ug/kg	400		ND				30%	Q-52
1,2-Dinitrobenzene	ND		65200	ug/kg	400		ND				30%	
1,3-Dinitrobenzene	ND		65200	ug/kg	400		ND				30%	
1,4-Dinitrobenzene	ND		65200	ug/kg	400		ND				30%	
Pyridine	ND		13000	ug/kg	400		ND				30%	
1,2-Dichlorobenzene	ND		6520	ug/kg	400		ND				30%	
1,3-Dichlorobenzene	ND		6520	ug/kg	400		ND				30%	
1,4-Dichlorobenzene	ND		6520	ug/kg	400		ND				30%	
Surr: Nitrobenzene-d5 (Surr)		Reco	overy: 86 %	Limits: 37	7-122 %	Dilı	ution: 400x				-	S-05
2-Fluorobiphenyl (Surr)			105 %	44	-120 %		"					S-05
Phenol-d6 (Surr)			115 %	33	-122 %		"					S-05
p-Terphenyl-d14 (Surr)			105 %	54	-127 %		"					S-05
2-Fluorophenol (Surr)			100 %	35	-120 %		"					S-05
2,4,6-Tribromophenol (Surr)			1310 %	39	-132 %		"					S-05

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile (Jrganic	Compoun	as by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C	(Acid/Base	Neutral)					Wa	ter				
Blank (23E0159-BLK1)			Prepared	: 05/03/23	11:46 Anal	yzed: 05/03/	/23 21:32					
EPA 8270E												
Acenaphthene	ND		0.0200	ug/L	1							
Acenaphthylene	ND		0.0200	ug/L	1							
Anthracene	ND		0.0200	ug/L	1							
Benz(a)anthracene	ND		0.0200	ug/L	1							
Benzo(a)pyrene	ND		0.0300	ug/L	1							
Benzo(b)fluoranthene	ND		0.0300	ug/L	1							
Benzo(k)fluoranthene	ND		0.0300	ug/L	1							
Benzo(g,h,i)perylene	ND		0.0200	ug/L	1							
Chrysene	ND		0.0200	ug/L	1							
Dibenz(a,h)anthracene	ND		0.0200	ug/L	1							
Iuoranthene	ND		0.0200	ug/L	1							
Fluorene	ND		0.0200	ug/L	1							
ndeno(1,2,3-cd)pyrene	ND		0.0200	ug/L	1							
-Methylnaphthalene	ND		0.0400	ug/L	1							
-Methylnaphthalene	ND		0.0400	ug/L	1							
Vaphthalene	ND		0.0400	ug/L	1							
Phenanthrene	ND		0.0200	ug/L	1							
yrene	ND		0.0200	ug/L	1							
Carbazole	ND		0.0300	ug/L	1							
Dibenzofuran	ND		0.0200	ug/L	1							
-Chlorophenol	ND		0.100	ug/L	1							
-Chloro-3-methylphenol	ND		0.200	ug/L	1							
4-Dichlorophenol	ND		0.100	ug/L	1							
,4-Dimethylphenol	ND		0.100	ug/L	1							
,4-Dinitrophenol	ND		0.500	ug/L	1							
,6-Dinitro-2-methylphenol	ND		0.500	ug/L	1							
-Methylphenol	ND		0.0500	ug/L	1							
+4-Methylphenol(s)	ND		0.0500	ug/L	1							
-Nitrophenol	ND		0.200	ug/L	1							
-Nitrophenol	ND		0.200	110/L	1							
Pentachlorophenol (PCP)	ND		0.200	110/L	1							
henol	ND		0.400	110/I	1							
3 1 6 Tetrachloronhonal			0.100	ug/L	1							

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Philip Nevenberg



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile (Organic (Compoun	ds by EP/	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base	Neutral)					Wat	ter				
Blank (23E0159-BLK1)			Prepared	: 05/03/23	11:46 Anal	yzed: 05/03/	/23 21:32					
2,3,5,6-Tetrachlorophenol	ND		0.100	ug/L	1							
2,4,5-Trichlorophenol	ND		0.100	ug/L	1							
2,4,6-Trichlorophenol	ND		0.100	ug/L	1							
Bis(2-ethylhexyl)phthalate	ND		0.400	ug/L	1							
Butyl benzyl phthalate	ND		0.400	ug/L	1							
Diethylphthalate	ND		0.400	ug/L	1							
Dimethylphthalate	ND		0.400	ug/L	1							
Di-n-butylphthalate	ND		0.400	ug/L	1							
Di-n-octyl phthalate	ND		0.400	ug/L	1							
N-Nitrosodimethylamine	ND		0.0500	ug/L	1							
N-Nitroso-di-n-propylamine	ND		0.0500	ug/L	1							
N-Nitrosodiphenylamine	ND		0.0500	ug/L	1							
Bis(2-Chloroethoxy) methane	ND		0.0500	ug/L	1							
Bis(2-Chloroethyl) ether	ND		0.0500	ug/L	1							
2,2'-Oxybis(1-Chloropropane)	ND		0.0500	ug/L	1							
Hexachlorobenzene	ND		0.0200	ug/L	1							
Hexachlorobutadiene	ND		0.0500	ug/L	1							
Hexachlorocyclopentadiene	ND		0.100	ug/L	1							
Hexachloroethane	ND		0.0500	ug/L	1							
2-Chloronaphthalene	ND		0.0200	ug/L	1							
1,2,4-Trichlorobenzene	ND		0.0500	ug/L	1							
4-Bromophenyl phenyl ether	ND		0.0500	ug/L	1							
4-Chlorophenyl phenyl ether	ND		0.0500	ug/L	1							
Aniline	ND		0.100	ug/L	1							
4-Chloroaniline	ND		0.0500	ug/L	1							
2-Nitroaniline	ND		0.400	ug/L	1							
3-Nitroaniline	ND		0.400	ug/L	1							
4-Nitroaniline	ND		0.400	ug/L	1							
Nitrobenzene	ND		0.200	ug/L	1							
2,4-Dinitrotoluene	ND		0.200	ug/L	1							
2,6-Dinitrotoluene	ND		0.200	ug/L	1							
Benzoic acid	ND		2.50	ug/L	1							
Benzyl alcohol	ND		0.200	ug/L	1							
Isophorone	ND		0.0500	ug/L	1							

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Philip Nevenberg



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile	Organic	Compour	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base	Neutral)					Wa	ter				
Blank (23E0159-BLK1)			Prepared	: 05/03/23	11:46 Ana	lyzed: 05/03	/23 21:32					
Azobenzene (1,2-DPH)	ND		0.0500	ug/L	1							
Bis(2-Ethylhexyl) adipate	ND		0.500	ug/L	1							
3,3'-Dichlorobenzidine	ND		1.00	ug/L	1							Q-5
1,2-Dinitrobenzene	ND		0.500	ug/L	1							
1,3-Dinitrobenzene	ND		0.500	ug/L	1							
1,4-Dinitrobenzene	ND		0.500	ug/L	1							
Pyridine	ND		0.200	ug/L	1							
1,2-Dichlorobenzene	ND		0.0500	ug/L	1							
1,3-Dichlorobenzene	ND		0.0500	ug/L	1							
1,4-Dichlorobenzene	ND		0.0500	ug/L	1							
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 71%	Limits: 4	4-120 %	Dilt	ution: 1x					
2-Fluorobiphenyl (Surr)			73 %	44	4-120 %		"					
Phenol-d6 (Surr)			28 %	10)-133 %		"					
p-Terphenyl-d14 (Surr)			113 %	50)-134 %		"					
2-Fluorophenol (Surr)			45 %	19	0-120 %		"					
2,4,6-Tribromophenol (Surr)			92 %	4	8-140 %		"					Q-41
LCS (23E0159-BS1)			Prepared	: 05/03/23	11:46 Ana	lyzed: 05/03	/23 22:06					
EPA 8270E						-						
Acenaphthene	2.75		0.0800	ug/L	4	4.00		69	47-122%			
Acenaphthylene	2.86		0.0800	ug/L	4	4.00		72	41-130%			
Anthracene	3.38		0.0800	ug/L	4	4.00		85	57-123%			
Benz(a)anthracene	3.51		0.0800	ug/L	4	4.00		88	58-125%			
Benzo(a)pyrene	3.21		0.120	ug/L	4	4.00		80	54-128%			
Benzo(b)fluoranthene	3.39		0.120	ug/L	4	4.00		85	53-131%			
Benzo(k)fluoranthene	3.40		0.120	ug/L	4	4.00		85	57-129%			
Benzo(g,h,i)perylene	3.71		0.0800	ug/L	4	4.00		93	50-134%			
Chrysene	3.59		0.0800	ug/L	4	4.00		90	59-123%			
- Dibenz(a,h)anthracene	3.53		0.0800	ug/L	4	4.00		88	51-134%			
Fluoranthene	3.79		0.0800	ug/L	4	4.00		95	57-128%			
Fluorene	3.24		0.0800	ug/L	4	4.00		81	52-124%			
Indeno(1.2.3-cd)pyrene	3.42		0.0800	ug/L	4	4.00		86	52-134%			
1-Methylnaphthalene	2.26		0.160	110/L	4	4.00		57	41-120%			
2-Methylnanhthalene	2.20		0.160	110/I	4	4.00		58	40-121%			

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, IN	C.
3140 NE Broadway Street	t

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyce Detection Reporting Limit Units Dilution Spike Amount Source Result % REC % REC Limit Prop Batch 23E0159 - EPA 3510C (Acid/Base Neutral) Vature Naphthalene Prepared: 05/03/23 11:46 Analyzed: 05/03/23 12:46 Analyzed: 05/03/23 12:46 Analyzed: 05/03/23 12:46 Phenanthrene 3.29			Se	emivolatile (Organic	Compour	nds by EP	A 8270E					
Batch 23E0159 - EPA 3810C (Acid/Base Neutral) Verter LCS (23E0159-BS1) Prepared: 05/03/23 11:46 Analytical Analyzed: 05/03/23 22:06 Naphthalane 2.19 - 0.0800 ug/L 4 4.00 S 40.020% - - Prene 3.71 - 0.0800 ug/L 4 4.00 - - Dibenzofuran 3.16 - 0.000 ug/L 4 4.00 - - Chlorophenol 3.25 - 0.400 ug/L 4 4 4 - - 2.4-Dimethylphenol 3.25 - 0.400 ug/L 4 4 - - -	Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
LCS (23E0159-BS1) Prepared: 05/03/23 11:46 Analyzed: 05/03/23 22:06 Naphthalene 2.19 0.160 ug/L 4 4.00 55 40-121% Phenanhrene 3.29 0.0800 ug/L 4 4.00 82 59-120% Carbazole 3.96 0.120 ug/L 4 4.00 99 60-122% Carbazole 3.96 0.0800 ug/L 4 4.00 69 38-120% 2-Chlorophenol 3.25 0.400 ug/L 4 4.00 86 23-120% 2-H-Dinitrophenol 3.43 0.400 ug/L 4 4.00 86 23-13% 2-H-Dinitrophenol 3.46 2.00 ug/L 4 4.00 5	atch 23E0159 - EPA 3510C	(Acid/Base	Neutral)					Wa	ater				
Naphthalene 2.19 0.160 ug/L 4 4.00 55 40-121% Phenanthrene 3.29 0.0800 ug/L 4 4.00 82 59-120% Carbazole 3.96 0.0800 ug/L 4 4.00 99 60-122% Dibenzofuran 3.16 0.0800 ug/L 4 4.00 69 38-120% 2-Chlorophenol 3.25 0.400 ug/L 4 4.00 81 52-120% 2-H-Dintophenol 3.43 0.400 ug/L 4 4.00 86 31-124%	CS (23E0159-BS1)			Prepared	: 05/03/23	11:46 Anal	lyzed: 05/03	3/23 22:06					
Phenanthrene 3.29 $$ 0.0800 ug/L 4 4.00 $$ 82 59.120% $$ $$ Pyrene 3.71 $$ 0.0800 ug/L 4 4.00 $$ 93 57.126% $$ $$ Dibenzofuran 3.16 $$ 0.0800 ug/L 4 4.00 $$ 99 53.120% $$ $$ 2-Chorosphenol 2.75 $$ 0.400 ug/L 4 4.00 $$ 86 31.124% $$ $$ 2.4-Dintorphenol 3.43 $$ 0.400 ug/L 4 4.00 $$ 68 31.124% $$ $$ 2.4-Dintorphenol 3.46 $$ 2.00 ug/L 4 4.00 $$ 68 31.124% $$ $$ 2.4-Dintorphenol 3.65 $$ 2.00 ug/L 4 4.00 $$ 59 30.120% $$ $$ 2.4-Dintorphenol 2.54 $$ <	aphthalene	2.19		0.160	ug/L	4	4.00		55	40-121%			
Pyrene 3.71 0.0800 ug/L 4 4.00 93 57.126% Carbazole 3.96 0.120 ug/L 4 4.00 99 60.122% Dibenzofuran 3.16 0.0800 ug/L 4 4.00 99 60.122% 2-Chlorophenol 3.25 0.400 ug/L 4 4.00 81 52.120% 2,4-Dinchlorophenol 3.43 0.400 ug/L 4 4.00 86 47.121% 2,4-Dinichylphenol 2.72 0.400 ug/L 4 4.00 86 23.143% 2,4-Dinichylphenol 2.55 2.00 ug/L 4 4.00 56 29.120% 2-Methylphenol(s) 2.34	henanthrene	3.29		0.0800	ug/L	4	4.00		82	59-120%			
Carbazele3.960.120ug/L44.0099 $60-122\%$ Dibenzofaran3.160.800ug/L44.00 79 $53-120\%$ 2-Chlorophenol3.250.400ug/L44.00 86 $47-121\%$ 2,4-Dichlorophenol3.430.400ug/L44.00 86 $47-121\%$ 2,4-Dintorphenol3.462.00ug/L44.00 68 $31-124\%$ 2,4-Dintorphenol3.652.00ug/L44.00 59 $30-120\%$ 2,4-Dintorphenol2.350.200ug/L44.00 56 $29-120\%$ 2-Methylphenol2.360.200ug/L44.00 56 $29-120\%$ 2-Nitrophenol3.690.800ug/L44.00 92 $10-120\%$ 2-Nitrophenol1.100.800ug/L44.00 92 $10-120\%$ 2-Nitrophenol3.920.800ug/L44.00 92 $10-120\%$ 2,3,4,6-Tertachlorophenol3.970.400ug/L4 <td< td=""><td>yrene</td><td>3.71</td><td></td><td>0.0800</td><td>ug/L</td><td>4</td><td>4.00</td><td></td><td>93</td><td>57-126%</td><td></td><td></td><td></td></td<>	yrene	3.71		0.0800	ug/L	4	4.00		93	57-126%			
Dibenzofuran 3.16 0.0800 ug/L 4 4.00 79 53.120% 2-Chiorophenol 2.75 0.400 ug/L 4 4.00 69 38.120% 2-Chiorophenol 3.43 0.400 ug/L 4 4.00 86 47.121% 2,4-Diintorphenol 3.46 2.00 ug/L 4 4.00 86 31.124% 2,4-Diintorphenol 3.46 2.00 ug/L 4 4.00 86 23.143% 2,4-Dithyphenol 2.35 0.200 ug/L 4 4.00 56 29.120% 2-Nitrophenol 3.69 0.800 ug/L 4 4.00 29 10.120% 2-Nitrophenol 1.10 0.80	arbazole	3.96		0.120	ug/L	4	4.00		99	60-122%			
2-Chlorophenol 2.75 0.400 ug/L 4 4.00 69 $38-120\%$ 2.4-Diordynenol 3.25 0.800 ug/L 4 4.00 81 $52-120\%$ 2.4-Direktylphenol 2.72 0.400 ug/L 4 4.00 86 $31-124\%$ 2.4-Direktylphenol 3.66 2.00 ug/L 4 4.00 86 23-143% 2.4-Direktylphenol 2.35 0.200 ug/L 4 4.00 59 30-120% 2-Netkylphenol 2.35 0.200 ug/L 4 4.00 59 30-120% 2-Nitrophenol 3.69 0.800 ug/L 4 4.00 92 47-123% 2-Nitrophenol 1.16 0.800 ug/L 4 4.00 <	ibenzofuran	3.16		0.0800	ug/L	4	4.00		79	53-120%			
4-Chloro-3-methylphenol 3.25 0.800 ug/L 4 4.00 81 $52-120\%$ 2.4-Dirichlorophenol 3.43 0.400 ug/L 4 4.00 86 $47-121\%$ 2.4-Diritrophenol 3.66 2.00 ug/L 4 4.00 86 $23-143\%$ 2.4-Diritrophenol 4.65 2.00 ug/L 4 4.00 86 $23-143\%$ 2.4-Mitrophenol 2.35 0.200 ug/L 4 4.00 59 $30-120\%$ 2-Nitrophenol 1.10 0.800 ug/L 4 4.00 92 $47-123\%$ Pentachlorophenol 1.16 0.800 ug/L 4 4.00 95 $35-138\%$ $2,3,4,6$ -Tetrachlorophenol 3.96	-Chlorophenol	2.75		0.400	ug/L	4	4.00		69	38-120%			
2,4-Dichlorophenol 3.43 0.400 ug/L 4 4.00 86 47-121% 2,4-Dimethylphenol 2.72 0.400 ug/L 4 4.00 68 31-124% 2,4-Dimitrophenol 3.46 2.00 ug/L 4 4.00 86 23-143% 2,4-Dimitrophenol 2.35 0.200 ug/L 4 4.00 56 29-120% 2-Nitrophenol 3.69 0.200 ug/L 4 4.00 92 47-123% 2-Nitrophenol 1.10 0.800 ug/L 4 4.00 92 47-123% 2,3,4,6-Tetrachlorophenol 1.16 0.800 ug/L 4 4.00 95 35-138% 2,3,4,6-Tetrachlorophenol 3.97 0.400 ug/L 4 4.00 </td <td>-Chloro-3-methylphenol</td> <td>3.25</td> <td></td> <td>0.800</td> <td>ug/L</td> <td>4</td> <td>4.00</td> <td></td> <td>81</td> <td>52-120%</td> <td></td> <td></td> <td></td>	-Chloro-3-methylphenol	3.25		0.800	ug/L	4	4.00		81	52-120%			
2,4-Dimethylphenol2.720.400ug/L44.0068 $31-124\%$ 2,4-Dimitrophenol3.462.00ug/L44.008623-143%4.6-Dinitro-2-methylphenol2.350.200ug/L44.005930-120%2-Methylphenol(s)2.240.200ug/L44.005629-120%2-Nitrophenol3.690.800ug/L44.009247-123%2-Nitrophenol1.100.800ug/L44.009535-138%2-Nitrophenol1.160.800ug/L44.009535-138%Pentachlorophenol3.920.400ug/L44.009850-128%2,3,4,6-Tetrachlorophenol3.960.400ug/L44.009953-123%2,4,5-Trichlorophenol3.970.400ug/L44.008850-128%2,4,5-Trichlorophenol3.530.400ug/L44.008850-125%2,4,5-Trichlorophenol3.530.400ug/L44.00 <td>4-Dichlorophenol</td> <td>3.43</td> <td></td> <td>0.400</td> <td>ug/L</td> <td>4</td> <td>4.00</td> <td></td> <td>86</td> <td>47-121%</td> <td></td> <td></td> <td></td>	4-Dichlorophenol	3.43		0.400	ug/L	4	4.00		86	47-121%			
2,4-Dinitrophenol3.462.00ug/L44.008623-143%4,6-Dinitro-2-methylphenol4.652.00ug/L44.0011644-137%2-Methylphenol2.350.200ug/L44.005930-120%3+4-Methylphenol(s)2.240.200ug/L44.005629-120%2-Nitrophenol3.690.800ug/L44.009247-123%2-Nitrophenol1.100.800ug/L44.009235-138%Pentachlorophenol (PCP)3.820.800ug/L44.009535-138%2,3,4.6-Tetrachlorophenol3.920.400ug/L44.009850-128%2,4.6-Trichlorophenol3.970.400ug/L44.008850-128%Bis(2-ethylhexyl)phthalate3.611.60ug/L44.008955-135%Dimethylphthalate3.611.60ug/L44.008956-125%Dimethylphthalate3.611.60ug/L44.00	,4-Dimethylphenol	2.72		0.400	ug/L	4	4.00		68	31-124%			
4.6-Dinitro-2-methylphenol4.652.00ug/L44.0011644.137%2-Methylphenol2.350.200ug/L44.005930-120%3+4-Methylphenol(s)2.240.200ug/L44.005629-120%2-Nitrophenol3.690.800ug/L44.009247-123%2-Nitrophenol1.100.800ug/L44.009210-120%Pentachlorophenol (PCP)3.820.800ug/L44.009535-138%2,3,4.6-Tetrachlorophenol3.920.400ug/L44.009850-128%2,3,5.6-Tetrachlorophenol3.960.400ug/L44.009953-138%2,4,6-Trichlorophenol3.970.400ug/L44.008850-125%Big/2-ethylhexyl)phthalate3.611.60ug/L44.008956-125%Diethylphthalate3.611.60ug/L44.008850-125%Din-butylphthalate3.611.60ug/L44.00 </td <td>,4-Dinitrophenol</td> <td>3.46</td> <td></td> <td>2.00</td> <td>ug/L</td> <td>4</td> <td>4.00</td> <td></td> <td>86</td> <td>23-143%</td> <td></td> <td></td> <td></td>	,4-Dinitrophenol	3.46		2.00	ug/L	4	4.00		86	23-143%			
2-Methylphenol2.350.200ug/L44.0059 30.120% 3+4-Methylphenol(s)2.240.200ug/L44.0056 29.120% 2-Nitrophenol3.690.800ug/L44.0092 47.123% 4-Nitrophenol1.100.800ug/L44.0095 35.138% Pentachlorophenol (PCP)3.820.800ug/L44.0095 35.138% Phenol1.160.800ug/L44.0098 50.128% 2,3,46-Tetrachlorophenol3.920.400ug/L44.0098 50.128% 2,3,56-Tetrachlorophenol3.970.400ug/L44.0099 53.123% 2,4,6-Trichlorophenol3.530.400ug/L44.0088 50.125% 2,4,6-Trichlorophenol3.530.400ug/L44.0085 55.135% 2,4,6-Trichlorophenol3.581.60ug/L44.0089 56.125% Diethylphthalate3.611.60ug/L44.00 <td>6-Dinitro-2-methylphenol</td> <td>4.65</td> <td></td> <td>2.00</td> <td>ug/L</td> <td>4</td> <td>4.00</td> <td></td> <td>116</td> <td>44-137%</td> <td></td> <td></td> <td>Q-4</td>	6-Dinitro-2-methylphenol	4.65		2.00	ug/L	4	4.00		116	44-137%			Q-4
3+4-Methylphenol(s) 2.24 0.200 ug/L 4 4.00 56 $29-120%$ $$ 2 -Nitrophenol 3.69 0.800 ug/L 4 4.00 92 $47-123%$ 4 -Nitrophenol 1.10 0.800 ug/L 4 4.00 92 $47-123%$ Pentachlorophenol (PCP) 3.82 0.800 ug/L 4 4.00 95 $35-138%$ $2,3,4.6$ -Tetrachlorophenol 3.92 0.400 ug/L 4 4.00 99 $50-128%$ $2,3,5.6$ -Tetrachlorophenol 3.96 0.400 ug/L 4 4.00 99 $50-121%$ $2,4,5$ -Trichlorophenol 3.97 0.400 ug/L 4 4.00 99 $50-121%$ $2,4,6$ -Trichlorophenol 3.53 0.400 ug/L 4 4.00 88 $50-125%$ $Bis(2-ethylhexyl)phthalate3.611.60ug/L44.008956-125%Dientylphthalate3.611.60ug/L44.008956-125%Di-n-butylphthalate3.611.60ug/L44.00$	-Methylphenol	2.35		0.200	ug/L	4	4.00		59	30-120%			
2-Nitrophenol 3.69 0.800 ug/L 4 4.00 92 47.123% 4-Nitrophenol 1.10 0.800 ug/L 4 4.00 27 10.120% Pentachlorophenol (PCP) 3.82 0.800 ug/L 4 4.00 95 35.138% $2,3,4,6$ -Tetrachlorophenol 3.92 0.400 ug/L 4 4.00 99 50.128% $2,3,5,6$ -Tetrachlorophenol 3.96 0.400 ug/L 4 4.00 99 50.128% $2,4,5$ -Trichlorophenol 3.97 0.400 ug/L 4 4.00 99 50.121% $2,4,6$ -Trichlorophenol 3.53 0.400 ug/L 4 4.00 88 50.125% $2,4,6$ -Trichlorophenol 3.53 0.400 ug/L 4 4.00 88 50.125% $Bis(2-ethylhexyl)phthalate3.611.60ug/L44.008956.125\%Diehylphthalate3.611.60ug/L44.008956.125\%Di-n-butylphthalate3.611.60ug/L44.00$	+4-Methylphenol(s)	2.24		0.200	ug/L	4	4.00		56	29-120%			
4-Nitrophenol1.100.800ug/L44.002710-120%Pentachlorophenol (PCP) 3.82 0.800 ug/L4 4.00 95 $35-138\%$ Phenol 1.16 0.800 ug/L4 4.00 98 $50-128\%$ $2,3,4,6$ -Tetrachlorophenol 3.92 0.400 ug/L4 4.00 98 $50-128\%$ $2,3,5,6$ -Tetrachlorophenol 3.96 0.400 ug/L4 4.00 99 $50-121\%$ $2,4,6$ -Trichlorophenol 3.97 0.400 ug/L4 4.00 99 $53-123\%$ $2,4,6$ -Trichlorophenol 3.53 0.400 ug/L4 4.00 88 $50-125\%$ $2,4,6$ -Trichlorophenol 3.53 1.60 ug/L4 4.00 85 $55-135\%$ Bityl benzyl phthalate 3.61 1.60 ug/L4 4.00 89 $56-125\%$ Dien-butyl phthalate 3.61 1.60 ug/L4 4.00 90 $45\cdot127\%$ Di-n-octyl phthalate 3.14 1.60 ug/L4 4.00 95 $59\cdot127\%$ N-Nitrosod	-Nitrophenol	3.69		0.800	ug/L	4	4.00		92	47-123%			
Pentachlorophenol (PCP) 3.82 0.800 ug/L 4 4.00 95 $35-138\%$ Phenol 1.16 0.800 ug/L 4 4.00 29 $10-120\%$ $2,3,4,6$ -Tetrachlorophenol 3.92 0.400 ug/L 4 4.00 98 $50-128\%$ $2,3,5,6$ -Tetrachlorophenol 3.96 0.400 ug/L 4 4.00 99 $50-121\%$ $2,4,5$ -Trichlorophenol 3.97 0.400 ug/L 4 4.00 99 $53-123\%$ $2,4,6$ -Trichlorophenol 3.53 0.400 ug/L 4 4.00 88 $50-125\%$ $2,4,6$ -Trichlorophenol 3.53 0.400 ug/L 4 4.00 88 $50-125\%$ $2,4,6$ -Trichlorophenol 3.53 0.400 ug/L 4 4.00 85 $55-135\%$ Bis(2-ethylhexyl)phthalate 3.61 1.60 ug/L 4 4.00 89 $56-125\%$ Dien-butylphthalate 3.61 1.60 ug/L 4 4.00 90 $45-127\%$ Di-n-otylphthalate 3.14 <	-Nitrophenol	1.10		0.800	ug/L	4	4.00		27	10-120%			
Phenol1.16 0.800 ug/L 4 4.00 29 $10-120\%$ $2,3,4,6$ -Tetrachlorophenol 3.92 0.400 ug/L 4 4.00 98 $50-128\%$ $2,3,5,6$ -Tetrachlorophenol 3.96 0.400 ug/L 4 4.00 99 $50-121\%$ $2,4,5$ -Trichlorophenol 3.97 0.400 ug/L 4 4.00 99 $53-123\%$ $2,4,6$ -Trichlorophenol 3.53 0.400 ug/L 4 4.00 88 $50-125\%$ $2,4,6$ -Trichlorophenol 3.53 0.400 ug/L 4 4.00 88 $50-125\%$ $2,4,6$ -Trichlorophenol 3.53 1.60 ug/L 4 4.00 85 $55-135\%$ Bis(2-ethylhexyl)phthalate 3.61 1.60 ug/L 4 4.00 89 $56-125\%$ Diethylphthalate 3.61 1.60 ug/L 4 4.00 90 $45\cdot127\%$ Di-n-otyl phthalate 3.14 1.60 ug/L 4 4.00 78 $51\cdot140\%$ N-Nitrosodimethylamine 1.34 0.200 ug/L 4 4.00	entachlorophenol (PCP)	3.82		0.800	ug/L	4	4.00		95	35-138%			
2,3,4,6-Tetrachlorophenol3.920.400ug/L44.0098 $50-128\%$ 2,3,5,6-Tetrachlorophenol3.960.400ug/L44.0099 $50-121\%$ 2,4,5-Trichlorophenol3.970.400ug/L44.0099 $53-123\%$ 2,4,6-Trichlorophenol3.530.400ug/L44.0088 $50-125\%$ 2,4,6-Trichlorophenol3.530.400ug/L44.0085 $55-135\%$ Bis(2-ethylhexyl)phthalate3.611.60ug/L44.0090 $53-134\%$ Diethylphthalate3.611.60ug/L44.0089 $56-125\%$ Dimethylphthalate3.611.60ug/L44.0090 $45-127\%$ Din-butylphthalate3.821.60ug/L44.0095 $59-127\%$ Di-n-octyl phthalate3.141.60ug/L44.0078 $51-140\%$ N-Nitrosodimethylamine1.340.200ug/L44.0068 $49-120\%$ N-Nitrosodiphenylamine3.340.200 <td>henol</td> <td>1.16</td> <td></td> <td>0.800</td> <td>ug/L</td> <td>4</td> <td>4.00</td> <td></td> <td>29</td> <td>10-120%</td> <td></td> <td></td> <td></td>	henol	1.16		0.800	ug/L	4	4.00		29	10-120%			
2,3,5,6-Tetrachlorophenol3.960.400ug/L44.0099 $50-121\%$ 2,4,5-Trichlorophenol3.970.400ug/L44.0099 $53-123\%$ 2,4,6-Trichlorophenol3.530.400ug/L44.0088 $50-125\%$ Bis(2-ethylhexyl)phthalate3.411.60ug/L44.0085 $55-135\%$ Butyl benzyl phthalate3.611.60ug/L44.0089 $56-125\%$ Diethylphthalate3.611.60ug/L44.0089 $56-125\%$ Dimethylphthalate3.611.60ug/L44.0090 $45-127\%$ Di-n-butylphthalate3.821.60ug/L44.0090 $45-127\%$ Di-n-octyl phthalate3.141.60ug/L44.0078 $51-140\%$ N-Nitrosodimethylamine1.340.200ug/L44.0068 $49-120\%$ N-Nitrosodiphenylamine3.340.200ug/L44.0068 $49-120\%$ Bis(2-Chloroethyl) ether2.580.200 <td>,3,4,6-Tetrachlorophenol</td> <td>3.92</td> <td></td> <td>0.400</td> <td>ug/L</td> <td>4</td> <td>4.00</td> <td></td> <td>98</td> <td>50-128%</td> <td></td> <td></td> <td></td>	,3,4,6-Tetrachlorophenol	3.92		0.400	ug/L	4	4.00		98	50-128%			
2,4,5-Trichlorophenol3.97 0.400 ug/L 4 4.00 99 $53-123\%$ 2,4,6-Trichlorophenol 3.53 0.400 ug/L 4 4.00 88 $50-125\%$ Bis(2-ethylhexyl)phthalate 3.41 1.60 ug/L 4 4.00 85 $55-135\%$ Butyl benzyl phthalate 3.61 1.60 ug/L 4 4.00 90 $53-134\%$ Diethylphthalate 3.61 1.60 ug/L 4 4.00 90 $45-127\%$ Dimethylphthalate 3.61 1.60 ug/L 4 4.00 90 $45-127\%$ Di-n-butylphthalate 3.82 1.60 ug/L 4 4.00 95 $59-127\%$ Di-n-octyl phthalate 3.14 1.60 ug/L 4 4.00 78 $51-140\%$ N-Nitrosodimethylamine 1.34 0.200 ug/L 4 4.00 68 $49-120\%$ N-Nitrosodiphenylamine 3.34 0.200 ug/L 4 4.00 83 $51-123\%$ Bis(2-Chloroethoxy) methane 2.85 0.200 ug/L 4 4.00 64 $43-120\%$,3,5,6-Tetrachlorophenol	3.96		0.400	ug/L	4	4.00		99	50-121%			
2,4,6-Trichlorophenol3.530.400ug/L44.008850-125%Bis(2-ethylhexyl)phthalate3.411.60ug/L44.008555-135%Butyl benzyl phthalate3.611.60ug/L44.008956-125%Diethylphthalate3.581.60ug/L44.008956-125%Dimethylphthalate3.611.60ug/L44.009045-127%Di-n-butylphthalate3.821.60ug/L44.009559-127%Di-n-octyl phthalate3.141.60ug/L44.007851-140%N-Nitrosodimethylamine1.340.200ug/L44.006849-120%N-Nitrosodiphenylamine3.340.200ug/L44.008351-123%Bis(2-Chloroethoxy) methane2.850.200ug/L44.006443-120%Bis(2-Chloroethyl) ether2.580.200ug/L44.006443-120%2,2'-Oxybis(1-Chloropropane)2.060.200ug/L <td>4,5-Trichlorophenol</td> <td>3.97</td> <td></td> <td>0.400</td> <td>ug/L</td> <td>4</td> <td>4.00</td> <td></td> <td>99</td> <td>53-123%</td> <td></td> <td></td> <td>Q-4</td>	4,5-Trichlorophenol	3.97		0.400	ug/L	4	4.00		99	53-123%			Q-4
Bis(2-ethylhexyl)phthalate 3.41 \cdots 1.60 ug/L 4 4.00 \cdots 85 $55-135\%$ \cdots \cdots Butyl benzyl phthalate 3.61 \cdots 1.60 ug/L 4 4.00 \cdots 90 $53-134\%$ \cdots \cdots Diethylphthalate 3.58 \cdots 1.60 ug/L 4 4.00 \cdots 89 $56-125\%$ \cdots \cdots Dimethylphthalate 3.61 \cdots 1.60 ug/L 4 4.00 \cdots 90 $45-127\%$ \cdots \cdots Din-butylphthalate 3.82 \cdots 1.60 ug/L 4 4.00 \cdots 95 $59-127\%$ \cdots \cdots Di-n-otyl phthalate 3.14 \cdots 1.60 ug/L 4 4.00 \cdots 78 $51-140\%$ \cdots \cdots N-Nitrosodimethylamine 1.34 \cdots 0.200 ug/L 4 4.00 \cdots 68 $49-120\%$ \cdots \cdots N-Nitrosodiphenylamine 3.34 \cdots 0.200 ug/L 4 4.00 \cdots 83 $51-123\%$ \cdots \cdots Bis(2-Chloroethoxy) methane 2.85 \cdots 0.200 ug/L 4 4.00 \cdots 64 $43-120\%$ \cdots \cdots $2,2'-Oxybis(1-Chloropropane)2.06\cdots0.200ug/L44.00\cdots5241-120\%\cdots\cdots$,4,6-Trichlorophenol	3.53		0.400	ug/L	4	4.00		88	50-125%			
Butyl benzyl phthalate 3.61 \dots 1.60 ug/L 4 4.00 \dots 90 $53-134\%$ \dots \dots Diethylphthalate 3.58 \dots 1.60 ug/L 4 4.00 \dots 89 $56-125\%$ \dots \dots Dimethylphthalate 3.61 \dots 1.60 ug/L 4 4.00 \dots 90 $45-127\%$ \dots \dots Di-n-butylphthalate 3.82 \dots 1.60 ug/L 4 4.00 \dots 95 $59-127\%$ \dots \dots Di-n-octyl phthalate 3.14 \dots 1.60 ug/L 4 4.00 \dots 78 $51-140\%$ \dots \dots N-Nitrosodimethylamine 1.34 \dots 0.200 ug/L 4 4.00 \dots 68 $49-120\%$ \dots \dots N-Nitrosodiphenylamine 3.34 \dots 0.200 ug/L 4 4.00 \dots 83 $51-123\%$ \dots \dots Bis(2-Chloroethoxy) methane 2.85 \dots 0.200 ug/L 4 4.00 \dots 64 $43-120\%$ \dots \dots 2,2'-Oxybis(1-Chloropropane) 2.06 \dots 0.200 ug/L 4 4.00 \dots 52 $41-120\%$ \dots \dots	is(2-ethylhexyl)phthalate	3.41		1.60	ug/L	4	4.00		85	55-135%			
Diethylphthalate 3.58 \cdots 1.60 ug/L 4 4.00 \cdots 89 $56-125\%$ \cdots \cdots Dimethylphthalate 3.61 \cdots 1.60 ug/L 4 4.00 \cdots 90 $45-127\%$ \cdots \cdots Di-n-butylphthalate 3.82 \cdots 1.60 ug/L 4 4.00 \cdots 95 $59-127\%$ \cdots \cdots Di-n-octyl phthalate 3.14 \cdots 1.60 ug/L 4 4.00 \cdots 78 $51-140\%$ \cdots \cdots N-Nitrosodimethylamine 1.34 \cdots 0.200 ug/L 4 4.00 \cdots 34 $19-120\%$ \cdots \cdots N-Nitrosodiphenylamine 2.71 \cdots 0.200 ug/L 4 4.00 \cdots 68 $49-120\%$ \cdots \cdots N-Nitrosodiphenylamine 3.34 \cdots 0.200 ug/L 4 4.00 \cdots 83 $51-123\%$ \cdots \cdots Bis(2-Chloroethoxy) methane 2.85 \cdots 0.200 ug/L 4 4.00 \cdots 64 $43-120\%$ \cdots \cdots 2,2'-Oxybis(1-Chloropropane) 2.06 \cdots 0.200 ug/L 4 4.00 \cdots 52 $41-120\%$ \cdots \cdots	utyl benzyl phthalate	3.61		1.60	ug/L	4	4.00		90	53-134%			
Dimethylphthalate 3.61 \cdots 1.60 ug/L 4 4.00 \cdots 90 $45-127\%$ \cdots \cdots Di-n-butylphthalate 3.82 \cdots 1.60 ug/L 4 4.00 \cdots 95 $59-127\%$ \cdots \cdots Di-n-octyl phthalate 3.14 \cdots 1.60 ug/L 4 4.00 \cdots 95 $59-127\%$ \cdots \cdots N-Nitrosodimethylamine 1.34 \cdots 0.200 ug/L 4 4.00 \cdots 34 $19-120\%$ \cdots \cdots N-Nitrosodiphenylamine 2.71 \cdots 0.200 ug/L 4 4.00 \cdots 68 $49-120\%$ \cdots \cdots N-Nitrosodiphenylamine 3.34 \cdots 0.200 ug/L 4 4.00 \cdots 83 $51-123\%$ \cdots \cdots Bis(2-Chloroethoxy) methane 2.85 \cdots 0.200 ug/L 4 4.00 \cdots 64 $43-120\%$ \cdots \cdots 2,2'-Oxybis(1-Chloropropane) 2.06 \cdots 0.200 ug/L 4 4.00 \cdots 52 $41-120\%$ \cdots \cdots	iethylphthalate	3.58		1.60	ug/L	4	4.00		89	56-125%			
Di-n-butylphthalate 3.82 \cdots 1.60 ug/L 4 4.00 \cdots 95 $59-127\%$ \cdots \cdots Di-n-octyl phthalate 3.14 \cdots 1.60 ug/L 4 4.00 \cdots 78 $51-140\%$ \cdots \cdots N-Nitrosodimethylamine 1.34 \cdots 0.200 ug/L 4 4.00 \cdots 34 $19-120\%$ \cdots \cdots N-Nitrosodiphenylamine 2.71 \cdots 0.200 ug/L 4 4.00 \cdots 68 $49-120\%$ \cdots \cdots N-Nitrosodiphenylamine 3.34 \cdots 0.200 ug/L 4 4.00 \cdots 83 $51-123\%$ \cdots \cdots Bis(2-Chloroethoxy) methane 2.85 \cdots 0.200 ug/L 4 4.00 \cdots 64 $43-120\%$ \cdots \cdots $2,2'$ -Oxybis(1-Chloropropane) 2.06 \cdots 0.200 ug/L 4 4.00 \cdots 52 $41-120\%$ \cdots \cdots	imethylphthalate	3.61		1.60	ug/L	4	4.00		90	45-127%			
Di-n-octyl phthalate 3.14 \cdots 1.60 ug/L 4 4.00 \cdots 78 $51-140\%$ \cdots \cdots N-Nitrosodimethylamine 1.34 \cdots 0.200 ug/L 4 4.00 \cdots 34 $19-120\%$ \cdots \cdots N-Nitrosodiphenylamine 2.71 \cdots 0.200 ug/L 4 4.00 \cdots 68 $49-120\%$ \cdots \cdots N-Nitrosodiphenylamine 3.34 \cdots 0.200 ug/L 4 4.00 \cdots 83 $51-123\%$ \cdots \cdots Bis(2-Chloroethoxy) methane 2.85 \cdots 0.200 ug/L 4 4.00 \cdots 64 $43-120\%$ \cdots \cdots Bis(2-Chloroethyl) ether 2.58 \cdots 0.200 ug/L 4 4.00 \cdots 64 $43-120\%$ \cdots \cdots 2,2'-Oxybis(1-Chloropropane) 2.06 \cdots 0.200 ug/L 4 4.00 \cdots 52 $41-120\%$ \cdots \cdots	i-n-butylphthalate	3.82		1.60	ug/L	4	4.00		95	59-127%			
N-Nitrosodimethylamine 1.34 0.200 ug/L 4 4.00 34 19-120% N-Nitroso-di-n-propylamine 2.71 0.200 ug/L 4 4.00 68 49-120% N-Nitrosodiphenylamine 3.34 0.200 ug/L 4 4.00 83 51-123% Bis(2-Chloroethoxy) methane 2.85 0.200 ug/L 4 4.00 64 43-120% Bis(2-Chloroethyl) ether 2.58 0.200 ug/L 4 4.00 64 43-120% 2,2'-Oxybis(1-Chloropropane) 2.06 0.200 ug/L 4 4.00 52 41-120%	i-n-octyl phthalate	3.14		1.60	ug/L	4	4.00		78	51-140%			
N-Nitroso-di-n-propylamine 2.71 0.200 ug/L 4 4.00 68 49-120%	-Nitrosodimethylamine	1.34		0.200	ug/L	4	4.00		34	19-120%			Q-3
N-Nitrosodiphenylamine 3.34 0.200 ug/L 4 4.00 83 51-123% Bis(2-Chloroethoxy) methane 2.85 0.200 ug/L 4 4.00 71 48-120% Bis(2-Chloroethyl) ether 2.58 0.200 ug/L 4 4.00 64 43-120% 2,2'-Oxybis(1-Chloropropane) 2.06 0.200 ug/L 4 4.00 52 41-120%	-Nitroso-di-n-propylamine	2.71		0.200	ug/L	4	4.00		68	49-120%			
Bis(2-Chloroethoxy) methane 2.85 0.200 ug/L 4 4.00 71 48-120% Bis(2-Chloroethyl) ether 2.58 0.200 ug/L 4 4.00 64 43-120% 2,2'-Oxybis(1-Chloropropane) 2.06 0.200 ug/L 4 4.00 52 41-120%	-Nitrosodiphenylamine	3.34		0.200	ug/L	4	4.00		83	51-123%			
Bis(2-Chloroethyl) ether 2.58 0.200 ug/L 4 4.00 64 43-120% 2,2'-Oxybis(1-Chloropropane) 2.06 0.200 ug/L 4 4.00 52 41-120%	is(2-Chloroethoxy) methane	2.85		0.200	ug/L	4	4.00		71	48-120%			
2,2'-Oxybis(1-Chloropropane) 2.06 0.200 ug/L 4 4.00 52 41-120%	is(2-Chloroethyl) ether	2.58		0.200	ug/L	4	4.00		64	43-120%			
	2'-Oxybis(1-Chloropropane)	2.06		0.200	ug/L	4	4.00		52	41-120%			Q-3
Hexachlorobenzene 3.33 0.0800 ug/L 4 4.00 83 53-125%	exachlorobenzene	3.33		0.0800	ug/L	4	4.00		83	53-125%			

Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (A	Acid/Base	Neutral)					Wa	iter				
LCS (23E0159-BS1)			Prepared	1: 05/03/23	11:46 Anal	lyzed: 05/03	/23 22:06					
Hexachlorobutadiene	1.31		0.200	ug/L	4	4.00		33	22-124%			
Hexachlorocyclopentadiene	1.38		0.400	ug/L	4	4.00		34	10-127%			
Hexachloroethane	1.15		0.200	ug/L	4	4.00		29	21-120%			
2-Chloronaphthalene	2.47		0.0800	ug/L	4	4.00		62	40-120%			
1,2,4-Trichlorobenzene	1.74		0.200	ug/L	4	4.00		44	29-120%			
4-Bromophenyl phenyl ether	3.38		0.200	ug/L	4	4.00		84	55-124%			
4-Chlorophenyl phenyl ether	3.21		0.200	ug/L	4	4.00		80	53-121%			
Aniline	2.29		0.400	ug/L	4	4.00		57	10-120%			
4-Chloroaniline	3.20		0.200	ug/L	4	4.00		80	33-120%			
2-Nitroaniline	3.78		1.60	ug/L	4	4.00		95	55-127%			
3-Nitroaniline	4.22		1.60	ug/L	4	4.00		106	41-128%			Q-4
4-Nitroaniline	3.69		1.60	ug/L	4	4.00		92	25-120%			
Nitrobenzene	2.67		0.800	ug/L	4	4.00		67	45-121%			
2,4-Dinitrotoluene	3.88		0.800	ug/L	4	4.00		97	57-128%			
2,6-Dinitrotoluene	3.64		0.800	ug/L	4	4.00		91	57-124%			
Benzoic acid	4.21		4.00	ug/L	4	8.00		53	10-120%			
Benzyl alcohol	2.29		0.800	ug/L	4	4.00		57	31-120%			
Isophorone	2.88		0.200	ug/L	4	4.00		72	42-124%			
Azobenzene (1,2-DPH)	2.85		0.200	ug/L	4	4.00		71	61-120%			
Bis(2-Ethylhexyl) adipate	3.38		2.00	ug/L	4	4.00		85	63-121%			
3,3'-Dichlorobenzidine	15.0		4.00	ug/L	4	8.00		187	27-129%			Q-29, Q-5
1,2-Dinitrobenzene	3.80		2.00	ug/L	4	4.00		95	59-120%			
1,3-Dinitrobenzene	4.04		2.00	ug/L	4	4.00		101	49-128%			
1,4-Dinitrobenzene	3.99		2.00	ug/L	4	4.00		100	54-120%			
Pyridine	1.60		0.800	ug/L	4	4.00		40	10-120%			
1,2-Dichlorobenzene	1.55		0.200	ug/L	4	4.00		39	32-120%			
1,3-Dichlorobenzene	1.41		0.200	ug/L	4	4.00		35	28-120%			
1,4-Dichlorobenzene	1.44		0.200	ug/L	4	4.00		36	29-120%			
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 71 %	Limits: 44	4-120 %	Dilt	ution: 4x					
2-Fluorobiphenyl (Surr)			79 %	44	4-120 %		"					
Phenol-d6 (Surr)			24 %	10)-133 %		"					
p-Terphenyl-d14 (Surr)			100 %	50)-134 %		"					
2-Fluorophenol (Surr)			38 %	19	0-120 %		"					
2,4,6-Tribromophenol (Surr)			109 %	43	8-140 %		"					Q-41

Apex Laboratories

Philip Nevenberg



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.			1	Project:	<u>Blue He</u>	ron Paper 1	Mill					
3140 NE Broadway Street			Pro	ject Numb	er: M0496.	01.002				<u>R</u>	eport ID	<u>.</u>
Portland, OR 97232			Proj	ect Manag	er: Jacob F	aust			А	3D1700	- 05 23 23	3 1457
		OU	ALITY CO	ONTROI	. (OC) SA	MPLE R	ESULTS	s				
		Se	mivolatile (Organic (Compoun	ds by EP	A 8270E	-				
		Detection	D on outin o	<u> </u>		Seiles	Sauraa		% DEC		DDD	
Analyte	Result	Limit	Limit	Units	Dilution	Amount	Result	% REC	Limits	RPD	Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base	Neutral)					Wa	ter				
LCS Dup (23E0159-BSD1)			Prenared	· 05/03/23	11·46 Anal	vzed: 05/03	/23 22:40					0-19
ECS Dap (2010/05/05D1)			Tiepareu	. 05/05/25		yzeu. 05/05	25 22.40					Q-17
Acenaphthene	2 52		0.0800	110/L	4	4 00		63	47-122%	9	30%	
Acenaphthylene	2.71		0.0800	ug/L	4	4.00		68	41-130%	5	30%	
Anthracene	3.36		0.0800	ug/L	4	4.00		84	57-123%	0.8	30%	
Benz(a)anthracene	3.65		0.0800	ug/L	4	4.00		91	58-125%	4	30%	
Benzo(a)pyrene	3.30		0.120	ug/L	4	4.00		82	54-128%	3	30%	
Benzo(b)fluoranthene	3.55		0.120	ug/L	4	4.00		89	53-131%	5	30%	
Benzo(k)fluoranthene	3.43		0.120	ug/L	4	4.00		86	57-129%	1	30%	
Benzo(g,h,i)perylene	3.91		0.0800	ug/L	4	4.00		98	50-134%	5	30%	
Chrysene	3.68		0.0800	ug/L	4	4.00		92	59-123%	2	30%	
Dibenz(a,h)anthracene	3.61		0.0800	ug/L	4	4.00		90	51-134%	2	30%	
Fluoranthene	3.74		0.0800	ug/L	4	4.00		94	57-128%	1	30%	
Fluorene	3.06		0.0800	ug/L	4	4.00		76	52-124%	6	30%	
Indeno(1,2,3-cd)pyrene	3.51		0.0800	ug/L	4	4.00		88	52-134%	2	30%	
1-Methylnaphthalene	2.05		0.160	ug/L	4	4.00		51	41-120%	10	30%	
2-Methylnaphthalene	2.05		0.160	ug/L	4	4.00		51	40-121%	13	30%	
Naphthalene	1.99		0.160	ug/L	4	4.00		50	40-121%	9	30%	
Phenanthrene	3.25		0.0800	ug/L	4	4.00		81	59-120%	1	30%	
Pyrene	3.69		0.0800	ug/L	4	4.00		92	57-126%	0.5	30%	
Carbazole	3.82		0.120	ug/L	4	4.00		95	60-122%	3	30%	
Dibenzofuran	2.84		0.0800	ug/L	4	4.00		71	53-120%	11	30%	
2-Chlorophenol	2.68		0.400	ug/L	4	4.00		67	38-120%	3	30%	
4-Chloro-3-methylphenol	3.22		0.800	ug/L	4	4.00		80	52-120%	1	30%	
2,4-Dichlorophenol	3.42		0.400	ug/L	4	4.00		85	47-121%	0.4	30%	
2,4-Dimethylphenol	2.79		0.400	ug/L	4	4.00		70	31-124%	3	30%	
2,4-Dinitrophenol	3.51		2.00	ug/L	4	4.00		88	23-143%	1	30%	
4,6-Dinitro-2-methylphenol	4.56		2.00	ug/L	4	4.00		114	44-137%	2	30%	Q-41
2-Methylphenol	2.30		0.200	ug/L	4	4.00		58	30-120%	2	30%	
3+4-Methylphenol(s)	2.18		0.200	ug/L	4	4.00		54	29-120%	3	30%	
2-Nitrophenol	3.72		0.800	ug/L	4	4.00		93	47-123%	0.8	30%	
4-Nitrophenol	1.04		0.800	ug/L	4	4.00		26	10-120%	6	30%	
Pentachlorophenol (PCP)	3.89		0.800	ug/L	4	4.00		97	35-138%	2	30%	
Phenol	1.16		0.800	ug/L	4	4.00		29	10-120%	0.09	30%	
2.3.4.6-Tetrachlorophenol	3.86		0.400	ug/L	4	4.00		96	50-128%	2	30%	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile (Organic	Compoun	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (A	Acid/Base	Neutral)					Wa	ter				
LCS Dup (23E0159-BSD1)			Prepared	: 05/03/23	11:46 Anal	yzed: 05/03	/23 22:40			_		Q-19
2,3,5,6-Tetrachlorophenol	3.85		0.400	ug/L	4	4.00		96	50-121%	3	30%	
2,4,5-Trichlorophenol	3.96		0.400	ug/L	4	4.00		99	53-123%	0.2	30%	Q-4
2,4,6-Trichlorophenol	3.44		0.400	ug/L	4	4.00		86	50-125%	3	30%	
Bis(2-ethylhexyl)phthalate	3.64		1.60	ug/L	4	4.00		91	55-135%	7	30%	
Butyl benzyl phthalate	3.86		1.60	ug/L	4	4.00		97	53-134%	7	30%	
Diethylphthalate	3.61		1.60	ug/L	4	4.00		90	56-125%	0.8	30%	
Dimethylphthalate	3.68		1.60	ug/L	4	4.00		92	45-127%	2	30%	
Di-n-butylphthalate	3.86		1.60	ug/L	4	4.00		96	59-127%	1	30%	
Di-n-octyl phthalate	3.38		1.60	ug/L	4	4.00		85	51-140%	8	30%	
N-Nitrosodimethylamine	1.25		0.200	ug/L	4	4.00		31	19-120%	7	30%	Q-3
N-Nitroso-di-n-propylamine	2.73		0.200	ug/L	4	4.00		68	49-120%	0.6	30%	
N-Nitrosodiphenylamine	3.38		0.200	ug/L	4	4.00		84	51-123%	1	30%	
Bis(2-Chloroethoxy) methane	2.92		0.200	ug/L	4	4.00		73	48-120%	3	30%	
Bis(2-Chloroethyl) ether	2.71		0.200	ug/L	4	4.00		68	43-120%	5	30%	
2,2'-Oxybis(1-Chloropropane)	2.02		0.200	ug/L	4	4.00		51	41-120%	2	30%	Q-3
Hexachlorobenzene	3.30		0.0800	ug/L	4	4.00		83	53-125%	0.9	30%	
Hexachlorobutadiene	1.16		0.200	ug/L	4	4.00		29	22-124%	12	30%	
Hexachlorocyclopentadiene	0.986		0.400	ug/L	4	4.00		25	10-127%	33	30%	Q-2
Hexachloroethane	1.02		0.200	ug/L	4	4.00		25	21-120%	12	30%	
2-Chloronaphthalene	2.14		0.0800	ug/L	4	4.00		53	40-120%	14	30%	
1,2,4-Trichlorobenzene	1.50		0.200	ug/L	4	4.00		38	29-120%	15	30%	
4-Bromophenyl phenyl ether	3.17		0.200	ug/L	4	4.00		79	55-124%	6	30%	
4-Chlorophenyl phenyl ether	2.83		0.200	ug/L	4	4.00		71	53-121%	13	30%	
Aniline	2.25		0.400	ug/L	4	4.00		56	10-120%	2	30%	
4-Chloroaniline	3.09		0.200	ug/L	4	4.00		77	33-120%	4	30%	
2-Nitroaniline	3.69		1.60	ug/L	4	4.00		92	55-127%	2	30%	
3-Nitroaniline	3.94		1.60	ug/L	4	4.00		98	41-128%	7	30%	Q-4
4-Nitroaniline	3.29		1.60	ug/L	4	4.00		82	25-120%	11	30%	
Nitrobenzene	2.60		0.800	ug/L	4	4.00		65	45-121%	3	30%	
2,4-Dinitrotoluene	3.75		0.800	ug/L	4	4.00		94	57-128%	3	30%	
2,6-Dinitrotoluene	3.63		0.800	ug/L	4	4.00		91	57-124%	0.4	30%	
Benzoic acid	4.23		4.00	ug/L	4	8.00		53	10-120%	0.7	30%	
Benzyl alcohol	2.26		0.800	ug/L	4	4.00		57	31-120%	1	30%	
sophorone	3.00		0.200	11ø/I	4	4.00		75	42-124%	4	30%	
sophorone	5.00		0.200	ug/L	т	7.00		,5	72-12-1/0	-	3070	

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Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile	Organic	Compour	nds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (A	Acid/Base	Neutral)					Wa	ter				
LCS Dup (23E0159-BSD1)			Prepared	1: 05/03/23	11:46 Ana	lyzed: 05/03	/23 22:40					Q-19
Azobenzene (1,2-DPH)	2.85		0.200	ug/L	4	4.00		71	61-120%	0.2	30%	
Bis(2-Ethylhexyl) adipate	3.60		2.00	ug/L	4	4.00		90	63-121%	6	30%	
3,3'-Dichlorobenzidine	13.1		4.00	ug/L	4	8.00		164	27-129%	13	30%	Q-29, Q-52
1,2-Dinitrobenzene	3.70		2.00	ug/L	4	4.00		93	59-120%	2	30%	
1,3-Dinitrobenzene	3.92		2.00	ug/L	4	4.00		98	49-128%	3	30%	
1,4-Dinitrobenzene	3.90		2.00	ug/L	4	4.00		97	54-120%	2	30%	
Pyridine	1.71		0.800	ug/L	4	4.00		43	10-120%	7	30%	
1,2-Dichlorobenzene	1.35		0.200	ug/L	4	4.00		34	32-120%	14	30%	
1,3-Dichlorobenzene	1.25		0.200	ug/L	4	4.00		31	28-120%	12	30%	
1,4-Dichlorobenzene	1.28		0.200	ug/L	4	4.00		32	29-120%	12	30%	
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 72 %	Limits: 44	4-120 %	Dili	ution: 4x					
2-Fluorobiphenyl (Surr)			79 %	44	1-120 %		"					
Phenol-d6 (Surr)			24 %	10)-133 %		"					
p-Terphenyl-d14 (Surr)			110 %	50)-134 %		"					
2-Fluorophenol (Surr)			42 %	19	0-120 %		"					
2,4,6-Tribromophenol (Surr)			112 %	43	8-140 %		"					Q-41

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Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Report ID:

Maul Foster & Alongi, INC. **3140 NE Broadway Street**

Portland, OR 97232

Project: **Blue Heron Paper Mill** Project Number: M0496.01.002 Project Manager: Jacob Faust

A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total N	letals by	EPA 6020	B (ICPMS	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0003 - EPA 3051A							So	lid				
Blank (23E0003-BLK2)			Prepared	: 05/01/23 (06:40 Ana	lyzed: 05/02	2/23 19:10					
EPA 6020B												
Arsenic	ND		1.00	mg/kg	10							Q-10
Barium	ND		1.00	mg/kg	10							Q-10
Cadmium	ND		0.200	mg/kg	10							Q-10
Chromium	ND		1.00	mg/kg	10							Q-10
Iron	ND		50.0	mg/kg	10							Q-10
Lead	ND		0.200	mg/kg	10							Q-10
Manganese	ND		1.00	mg/kg	10							Q-10
Mercury	ND		0.0800	mg/kg	10							Q-10
Selenium	ND		1.00	mg/kg	10							Q-10
Silver	ND		0.200	mg/kg	10							Q-10
LCS (23E0003-BS2)			Prepared	: 05/01/23 (06:40 Ana	lyzed: 05/02	2/23 19:15					
EPA 6020B												
Arsenic	52.6		1.00	mg/kg	10	50.0		105	80-120%			Q-10
Barium	53.1		1.00	mg/kg	10	50.0		106	80-120%			Q-10
Cadmium	50.3		0.200	mg/kg	10	50.0		101	80-120%			Q-10
Chromium	51.1		1.00	mg/kg	10	50.0		102	80-120%			Q-10
Iron	2680		50.0	mg/kg	10	2500		107	80-120%			Q-10
Lead	56.1		0.200	mg/kg	10	50.0		112	80-120%			Q-10
Manganese	51.2		1.00	mg/kg	10	50.0		102	80-120%			Q-10
Mercury	1.03		0.0800	mg/kg	10	1.00		103	80-120%			Q-10
Selenium	26.1		1.00	mg/kg	10	25.0		105	80-120%			Q-10
Silver	25.4		0.200	mg/kg	10	25.0		102	80-120%			Q-10
Duplicate (23E0003-DUP1)			Prepared	: 05/01/23 (06:40 Ana	lyzed: 05/02	2/23 22:41					
<u>QC Source Sample: Non-SDG (A3</u>	D1630-01)											
Arsenic	2.98		1.11	mg/kg	10		3.29			10	20%	
Barium	76.4		1.11	mg/kg	10		84.1			10	20%	
Cadmium	0.341		0.221	mg/kg	10		0.396			15	20%	
Chromium	11.6		1.11	mg/kg	10		13.0			11	20%	
Iron	20100		55.3	mg/kg	10		22200			10	20%	
Lead	28.9		0.221	mg/kg	10		32.4			11	20%	
Manganese	261		1.11	mg/kg	10		286			9	20%	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project: <u>Blue Heron Paper Mill</u> Project Number: M0496.01.002

Project Manager: Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	etals by	EPA 6020	B (ICPMS	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0003 - EPA 3051A							Sol	lid				
Duplicate (23E0003-DUP1)			Prepared	: 05/01/23 (06:40 Ana	lyzed: 05/02	2/23 22:41					
QC Source Sample: Non-SDG (A3)	<u>D1630-01)</u>											
Mercury	ND		0.0885	mg/kg	10		0.0989			***	20%	
Selenium	ND		1.11	mg/kg	10		ND				20%	
Silver	ND		0.221	mg/kg	10		0.112			***	20%	
Matrix Spike (23E0003-MS1)			Prepared	: 05/01/23 (06:40 Ana	lyzed: 05/02	2/23 22:46					
QC Source Sample: Non-SDG (A3)	D1630-01)											
<u>EPA 6020B</u>												
Arsenic	53.8		0.996	mg/kg	10	49.8	3.29	101	75-125%			
Barium	139		0.996	mg/kg	10	49.8	84.1	110	75-125%			
Cadmium	49.1		0.199	mg/kg	10	49.8	0.396	98	75-125%			
Chromium	62.5		0.996	mg/kg	10	49.8	13.0	99	75-125%			
Iron	25900		49.8	mg/kg	10	2490	22200	148	75-125%			Q-63
Lead	81.1		0.199	mg/kg	10	49.8	32.4	98	75-125%			
Manganese	382		0.996	mg/kg	10	49.8	286	191	75-125%			Q-63
Mercury	1.03		0.0797	mg/kg	10	0.996	0.0989	94	75-125%			
Selenium	25.2		0.996	mg/kg	10	24.9	ND	101	75-125%			
Silver	24.3		0.199	mg/kg	10	24.9	0.112	97	75-125%			

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Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC	•
3140 NE Broadway Street	

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	letals by	EPA 6020	B (ICPMS	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0048 - EPA 3015A							Wa	ter				
Blank (23E0048-BLK1)			Prepared	: 05/01/23	12:48 Ana	lyzed: 05/02	/23 00:25					
EPA 6020B												
Arsenic	ND		1.00	ug/L	1							
Barium	ND		2.00	ug/L	1							
Cadmium	ND		0.200	ug/L	1							
Chromium	ND		2.00	ug/L	1							
Iron	ND		50.0	ug/L	1							
Lead	ND		0.200	ug/L	1							
Mercury	ND		0.0800	ug/L	1							
Selenium	ND		1.00	ug/L	1							
Silver	ND		0.200	ug/L	1							
Blank (23E0048-BLK2)			Prepared	: 05/01/23	12:48 Ana	lyzed: 05/02	/23 23:26					
EPA 6020B	ND		1.00		1							
manganese	ND		1.00	ug/L	1							Q-
LCS (23E0048-BS1)			Prepared	: 05/01/23	12:48 Ana	lyzed: 05/02	/23 00:30					
<u>EPA 6020B</u>												
Arsenic	56.4		1.00	ug/L	1	55.6		101	80-120%			
Barium	56.2		2.00	ug/L	1	55.6		101	80-120%			
Cadmium	54.3		0.200	ug/L	1	55.6		98	80-120%			
Chromium	54.2		2.00	ug/L	1	55.6		98	80-120%			
Iron	2650		50.0	ug/L	1	2780		95	80-120%			
Lead	56.8		0.200	ug/L	1	55.6		102	80-120%			
Mercury	1.01		0.0800	ug/L	1	1.11		91	80-120%			
Selenium	27.4		1.00	ug/L	1	27.8		99	80-120%			
Silver	26.1		0.200	ug/L	1	27.8		94	80-120%			
LCS (23E0048-BS2)			Prepared	: 05/01/23	12:48 Ana	lyzed: 05/02	/23 23:41					
EPA 6020B												
Manganese	54.4		1.00	ug/L	1	55.6		98	80-120%			Q-
Dunlicate (23E0048-DUP1)			Prenarad	· 05/01/23	12.48 Ano	lvzed: 05/02	/23 00.47					

QC Source Sample: Non-SDG (A3D1458-01)

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	etals by	EPA 6020	B (ICPMS)	5)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0048 - EPA 3015A							Wa	ter				
Duplicate (23E0048-DUP1)			Prepared	05/01/23	12:48 Ana	yzed: 05/02	/23 00:47					
QC Source Sample: Non-SDG (A3	<u>D1458-01)</u>											
Arsenic	1.13		1.00	ug/L	1		1.25			10	20%	
Barium	48.6		2.00	ug/L	1		49.0			0.8	20%	
Cadmium	ND		0.200	ug/L	1		ND				20%	
Chromium	3.18		2.00	ug/L	1		3.60			12	20%	
Iron	998		50.0	ug/L	1		976			2	20%	
Lead	0.419		0.200	ug/L	1		0.432			3	20%	
Mercury	ND		0.0800	ug/L	1		0.0839			***	20%	
Selenium	ND		1.00	ug/L	1		ND				20%	
Silver	ND		0.200	ug/L	1		ND				20%	
Duplicate (23E0048-DUP2)			Prepared	: 05/01/23	12:48 Ana	yzed: 05/02	/23 23:50					
QC Source Sample: Non-SDG (A3	D1458-01RI	<u>E1)</u>										
Manganese	55.4		1.00	ug/L	1		54.8			1	20%	Q-
Matrix Spike (23E0048-MS1)			Prepared	: 05/01/23	12:48 Ana	yzed: 05/02	/23 00:53					
QC Source Sample: Non-SDG (A3	D1458-01)											
<u>EPA 6020B</u>												
Arsenic	58.4		1.00	ug/L	1	55.6	1.25	103	75-125%			
Barium	105		2.00	ug/L	1	55.6	49.0	101	75-125%			
Cadmium	55.3		0.200	ug/L	1	55.6	ND	100	75-125%			
Chromium	57.2		2.00	ug/L	1	55.6	3.60	97	75-125%			
Iron	3640		50.0	ug/L	1	2780	976	96	75-125%			
Lead	54.8		0.200	ug/L	1	55.6	0.432	98	75-125%			
Mercury	1.10		0.0800	ug/L	1	1.11	0.0839	92	75-125%			
Selenium	27.9		1.00	ug/L	1	27.8	ND	101	75-125%			
Silver	26.1		0.200	ug/L	1	27.8	ND	94	75-125%			
Matrix Spike (23E0048-MS2)			Prenared	: 05/01/23	12:48 Ana	vzed: 05/02	/23 23:55					
QC Source Sample: Non-SDG (A3	D1458-01RI	E <u>1)</u>	Tepureu		12.10 7.11d	., 200. 00/02	0 _0.00					
<u>EPA 6020B</u>												
Manganese	109		1.00	ug/L	1	55.6	54.8	98	75-125%			0-

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.01.002

Project Manager: Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

			TCLP N	letals by	EPA 602	0B (ICPM	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0390 - EPA 1311/301	5A						Sol	id				
Blank (23E0390-BLK1)			Prepared	: 05/09/23	11:08 Ana	lyzed: 05/09	/23 15:13					
<u>1311/6020B</u>												
Lead	ND		0.0500	mg/L	10							TCL
LCS (23E0390-BS1)			Prepared	: 05/09/23	11:08 Ana	lyzed: 05/09	/23 15:18					
<u>1311/6020B</u>												
Lead	5.50		0.0500	mg/L	10	5.00		110	80-120%			TCI
Duplicate (23E0390-DUP1)			Prepared	: 05/09/23	11:08 Ana	lyzed: 05/09	/23 15:28					
<u>QC Source Sample: Ink-S-002 (A3</u> 1311/6020B	<u>D1700-03)</u>											
Lead	ND		0.0500	mg/L	10		ND				20%	
Matrix Spike (23E0390-MS1)			Prepared	: 05/09/23	11:08 Ana	lyzed: 05/09	/23 15:33					
<u>OC Source Sample: Ink-S-002 (A3</u> 1311/6020B	<u>D1700-03)</u>											
Lead	5.40		0.0500	mg/L	10	5.00	ND	108	50-150%			

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Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi,</u> 3140 NE Broadway Str Portland, OR 97232	<u>INC.</u> reet	Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust				<u>Report ID:</u> A3D1700 - 05 23 23 1457			
SAMPLE PREPARATION INFORMATION									
Hydrocarbon Identification Screen by NWTPH-HCID									
Prep: EPA 3510C (Fuels/Acid Ext.) Sample Default RL Pro									
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23E0098 A3D1700-01	Water	NWTPH-HCID	04/28/23 08:54	05/02/23 14:40	1040mL/5mL	1000mL/5mL	0.96		
Prep: NWTPH-HCID	(Soil)				Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23E0068									
A3D1700-02 A3D1700-03	Solid Concrete	NWTPH-HCID NWTPH-HCID	04/28/23 09:10 04/28/23 09:22	05/02/23 07:22 05/02/23 07:22	10.36g/10mL 10.57g/10mL	10g/10mL 10g/10mL	0.97 0.95		
Diesel and/or Oil Hydrocarbons by NWTPH-Dx									
Prep: FPA 3546 (Fuels) Sample Default RI Dren									
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23E0378			1	1					
A3D1700-02RE1	Solid	NWTPH-Dx	04/28/23 09:10	05/09/23 09:45	10.92g/10mL	10g/5mL	1.83		
A3D1700-03	Concrete	NWTPH-Dx	04/28/23 09:22	05/09/23 09:45	10.85g/5mL	10g/5mL	0.92		
	Gase	oline Range Hydrocarb	ons (Benzene thro	ugh Naphthalene) by	NWTPH-Gx				
<u> Prep: EPA 5035A</u>					Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23E0310									
A3D1700-02	Solid	NWTPH-Gx (MS)	04/28/23 09:10	04/28/23 12:35	5.13g/5mL	5g/5mL	0.98		
A3D1700-03	Collefele	NW 11 11-0X (M3)	04/28/23 09.22	04/28/25 12.5/	5.05g/5IIIL	Jg/JIIL	0.99		
		Polychle	orinated Biphenyls I	by EPA 8082A					
Prep: EPA 3510C (Ne	eutral pH)				Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23E0041 A3D1700-01	Water	EPA 8082A	04/28/23 08:54	05/01/23 11:28	1020mL/5mL	1000mL/5mL	0.98		
Prep: EPA 3546					Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23E0083			*	*					
A3D1700-02	Solid	EPA 8082A	04/28/23 09:10	05/02/23 10:07	2.73g/5mL	2g/5mL	0.73		
A3D1700-03	Concrete	EPA 8082A	04/28/23 09:22	05/02/23 10:07	2.83g/5mL	2g/5mL	0.71		
Apex Laboratories The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.									

Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

15g/2mL

15g/2mL

2.48

0.99

<u>Maul Foster & Alongi,</u> 3140 NE Broadway Str Portland, OR 97232	<u>INC.</u> reet	Project:Blue Heron Paper MillProject Number:M0496.01.002Project Manager:Jacob Faust				<u>Report ID:</u> A3D1700 - 05 23 23	1457
SAMPLE PREPARATION INFORMATION							
		Polycł	nlorinated Biphenyls	by EPA 8082A			
Prep: EPA 3546 Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
		Semivolat	ile Organic Compou	nds by EPA 8270E			
Prep: EPA 3510C (Ac	<u>id/Base Neutral)</u>				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23E0159 A3D1700-01RE1	Water	EPA 8270E	04/28/23 08:54	05/03/23 11:46	770mL/1mL	1000mL/1mL	1.30
<u>Prep: EPA 3546</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23E0084							

Total Metals by EPA 6020B (ICPMS)								
<u> Prep: EPA 3015A</u>					Sample	Default	RL Prep	
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
Batch: 23E0048								
A3D1700-01	Water	EPA 6020B	04/28/23 08:54	05/01/23 12:48	45mL/50mL	45mL/50mL	1.00	
A3D1700-01RE1	Water	EPA 6020B	04/28/23 08:54	05/01/23 12:48	45mL/50mL	45mL/50mL	1.00	
Prep: EPA 3051A					Sample	Default	RL Prep	
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
Batch: 23E0003								
A3D1700-02	Solid	EPA 6020B	04/28/23 09:10	05/01/23 06:40	0.458g/50mL	0.5g/50mL	1.09	
A3D1700-03	Concrete	EPA 6020B	04/28/23 09:22	05/01/23 06:40	0.49g/50mL	0.5g/50mL	1.02	

04/28/23 09:10

04/28/23 09:22

05/02/23 10:09

05/02/23 10:09

15.11g/5mL

15.1g/2mL

TCLP Metals by EPA 6020B (ICPMS)									
Prep: EPA 1311/301	<u>5A</u>				Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23E0390 A3D1700-03	Concrete	1311/6020B	04/28/23 09:22	05/09/23 11:08	10mL/50mL	10mL/50mL	1.00		

TCLP Extraction by EPA 1311

Apex Laboratories

A3D1700-02

A3D1700-03

Solid

Concrete

EPA 8270E

EPA 8270E

Philip Nevenberg



A3D1700-03

ANALYTICAL REPORT

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

100g/2000g

RL Prep

Factor

NA

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill						
3140 NE Broadway Street	Project Number: M0496.01.002	<u>Report ID:</u>					
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457					
SAMPLE PREPARATION INFORMATION							

TCLP Extraction by EPA 1311 Prep: EPA 1311 (TCLP) Sample Default Lab Number Matrix Method Sampled Prepared Initial/Final Initial/Final Batch: 23E0353 Example Example Example Example Initial/Final

04/28/23 09:22

05/08/23 16:41

100g/2000.1g

EPA 1311

Concrete

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Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Blue Heron Paper Mill
Project Number: M0496.01.002

Project Manager: Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- **B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- P-12 Result estimated due to the presence of multiple PCB Aroclors and/or PCB congeners not defined as Aroclors.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-17 RPD between original and duplicate sample is outside of established control limits.
- Q-18 Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-24 The RPD for this spike and spike duplicate is above established control limits. Recoveries for both the spike and spike duplicate are within control limits.
- Q-29 Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-52 Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-65 Spike recovery is estimated due to the high analyte concentration of the source sample.
- **R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-01 Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05 Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23E0353.
- V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232

Project: Blue Heron Paper Mill

Project Number: M0496.01.002 Project Manager: Jacob Faust <u>Report ID:</u> A3D1700 - 05 23 23 1457

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- <u>" dry"</u> Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "____ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"--- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

"*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project: <u>Blue Heron Paper Mill</u> Project Number: M0496.01.002

Project Manager: Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Blue Heron Paper Mill
Project Number: M0496.01.002

Project Manager: Jacob Faust

<u>Report ID:</u> A3D1700 - 05 23 23 1457

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories								
Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation			

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & A</u>	longi, INC.	Project: Blue H	eron Paper Mill	
3140 NE Broadw	ay Street	Project Number: M0496	.01.002	Report ID:
Portland, OR 97	/232	Project Manager: Jacob	Faust	A3D1700 - 05 23 23 1457
	Ai Client: $Mau/Firster$ Project/Project #: Blue Delivery Info: Date/time received: $478/73/23@$ Delivered by: Apex_Client_KESS Cooler Inspection Date/time in Chain of Custody included? Yes Signed/dated by client? Yes Cooler Temperature (°C) 314 Custody seals? (Y/N) 450 Received on ice? (Y/N) 450 Ice type: (Gel/Real/Other) Yes Cooler out of temp? (Y/N) Possible Green dots applied to out of temperature samples form in Sample Inspection: Date/time instante All samples intact? Yes \ge No No Bottle labels/COCs agree? Yes \ge No	PEX LABS COOLER RECE YOY Demo /021 By:	Element WO#: A3 $p_1 + 0^0$ M(x) Description Soler #4 Cooler #5 Cooler #4 Cooler #5 Cooler #6 Element #4 Cooler #5 Soler #6 Element #4 Cooler #5 Soler #4 Cooler #5 Soler #4 Soler #5 Soler #4 Soler #5 Soler #5 Soler #6 Soler #6 Soler #5 <td></td>	
	COC/container discrepancies form i Containers/volumes received approp	initiated? Yes No $\stackrel{\succ}{\succ}$ priate for analysis? Yes $\stackrel{\searrow}{\succ}$ N	o Comments:	
	Do VOA vials have visible headspace Comments Water samples: pH checked: Yes <u>></u> Comments:	ce? Yes <u>No X</u> NA _ No NA pH appropriate	 ? Yes <u>`X_</u> NoNA	
	Additional information:			
	Labeled by:	Witness: AM	Cooler Inspected by:	Form Y-003 R-00 -

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Wednesday, June 7, 2023 Jacob Faust Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232

RE: A3E1053 - Blue Heron Paper Mill - M0496.02.003

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3E1053, which was received by the laboratory on 5/5/2023 at 9:40:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>pnerenberg@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 1.0 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	<u>Report ID:</u>
Portland, OR 97232	Project Manager: Jacob Faust	A3E1053 - 06 07 23 1055

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION							
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received			
Ink-W-002	A3E1053-01	Water	05/05/23 08:20	05/05/23 09:40			

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Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project: <u>Blue Heron Paper Mill</u>

Project Number: M0496.02.003 Project Manager: Jacob Faust <u>Report ID:</u> A3E1053 - 06 07 23 1055

ANALYTICAL CASE NARRATIVE

A3E1053

Apex Laboratories

Subcontract

This report is complete only if it includes the attached subcontract laboratory report from Ceres Analytical .

Cameron O'Brien Project Manager 5/10/23

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project:	Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number:	M0496.02.003	Report ID:
Portland, OR 97232	Project Manager:	Jacob Faust	A3E1053 - 06 07 23 1055

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-002 (A3E1053-01)				Matrix: Wate)r	Batch:	23E0395	
Gasoline Range Organics	ND		0.0980	mg/L	1	05/09/23 23:23	NWTPH-HCID	
Diesel Range Organics	ND		0.245	mg/L	1	05/09/23 23:23	NWTPH-HCID	
Oil Range Organics	ND		0.245	mg/L	1	05/09/23 23:23	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recove	ry: 108 %	Limits: 50-150 %	1	05/09/23 23:23	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			29 %	10-120 %	5 <i>1</i>	05/09/23 23:23	NWTPH-HCID	

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Philip Nevenberg

Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project:	Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number:	M0496.02.003	<u>Report ID:</u>
Portland, OR 97232	Project Manager:	Jacob Faust	A3E1053 - 06 07 23 1055

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-W-002 (A3E1053-01)				Matrix: Wate	ər	Batch:	23E0393	C-07
Aroclor 1016	ND		0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1221	ND		0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1232	ND		0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1242	ND		0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1248	ND		0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1254	ND		0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1260	ND		0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Reco	very: 80 %	Limits: 40-135 %	1	05/10/23 09:44	EPA 8082A	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

Report ID:	
A3E1053 - 06 07 23 105	5

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-W-002 (A3E1053-01RE1)				Matrix: Water		Batch: 23E0466		
Acenaphthene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Acenaphthylene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Anthracene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Benz(a)anthracene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzo(a)pyrene	ND		0.118	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzo(b)fluoranthene	ND		0.118	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzo(k)fluoranthene	ND		0.118	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzo(g,h,i)perylene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Chrysene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Dibenz(a,h)anthracene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Fluoranthene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Fluorene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
1-Methylnaphthalene	ND		0.157	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Methylnaphthalene	ND		0.157	ug/L	4	05/10/23 22:31	EPA 8270E	
Naphthalene	ND		0.157	ug/L	4	05/10/23 22:31	EPA 8270E	
Phenanthrene	0.126		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Pyrene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Carbazole	ND		0.118	ug/L	4	05/10/23 22:31	EPA 8270E	
Dibenzofuran	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Chlorophenol	ND		0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Chloro-3-methylphenol	ND		0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4-Dichlorophenol	ND		0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4-Dimethylphenol	ND		0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4-Dinitrophenol	ND		1.96	ug/L	4	05/10/23 22:31	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND		1.96	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Methylphenol	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
3+4-Methylphenol(s)	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Nitrophenol	ND		0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Nitrophenol	ND		0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
Pentachlorophenol (PCP)	ND		0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
Phenol	ND		1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND		0.392	ug/L	4	05/10/23 22:31	EPA 8270E	

Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

Report ID:						
A3E1053 - 06 07 23 1055						

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Ink-W-002 (A3E1053-01RE1)				Matrix: Water		Batch: 23E0466		
2,3,5,6-Tetrachlorophenol	ND		0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4,5-Trichlorophenol	ND		0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4,6-Trichlorophenol	ND		0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND		1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Butyl benzyl phthalate	ND		1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Diethylphthalate	ND		1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Dimethylphthalate	ND		1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Di-n-butylphthalate	ND		1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Di-n-octyl phthalate	ND		1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
N-Nitrosodimethylamine	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
N-Nitroso-di-n-propylamine	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
N-Nitrosodiphenylamine	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Bis(2-Chloroethyl) ether	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Hexachlorobenzene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Hexachlorobutadiene	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Hexachlorocyclopentadiene	ND		0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
Hexachloroethane	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Chloronaphthalene	ND		0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
1,2,4-Trichlorobenzene	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Bromophenyl phenyl ether	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Chlorophenyl phenyl ether	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Aniline	ND		0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Chloroaniline	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Nitroaniline	ND		1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
3-Nitroaniline	ND		1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Nitroaniline	ND		1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Nitrobenzene	ND		0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4-Dinitrotoluene	ND		0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
2,6-Dinitrotoluene	ND		0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzoic acid	ND		9.80	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzyl alcohol	ND		0.784	ug/L	4	05/10/23 22:31	EPA 8270E	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3E1053 - 06 07 23 1055

ANALYTICAL SAMPLE RESULTS

	Semivolatile Organic Compounds by EPA 8270E Sample Result Detection Limit Reporting Limit Date Units Dilution Analyzed Method Ref. Notes W-002 (A3E1053-01RE1) ND 0.196 ug/L 4 05/10/23 22:31 EPA 8270E whenzene (1 2-DPH) ND 0.196 ug/L 4 05/10/23 22:31 EPA 8270E													
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes						
Ink-W-002 (A3E1053-01RE1)				Matrix: Wate	ər	Batch:	23E0466							
Isophorone	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E							
Azobenzene (1,2-DPH)	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E							
Bis(2-Ethylhexyl) adipate	ND		1.96	ug/L	4	05/10/23 22:31	EPA 8270E							
3,3'-Dichlorobenzidine	ND		3.92	ug/L	4	05/10/23 22:31	EPA 8270E	Q-52						
1,2-Dinitrobenzene	ND		1.96	ug/L	4	05/10/23 22:31	EPA 8270E							
1,3-Dinitrobenzene	ND		1.96	ug/L	4	05/10/23 22:31	EPA 8270E							
1,4-Dinitrobenzene	ND		1.96	ug/L	4	05/10/23 22:31	EPA 8270E							
Pyridine	ND		0.784	ug/L	4	05/10/23 22:31	EPA 8270E							
1,2-Dichlorobenzene	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E							
1,3-Dichlorobenzene	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E							
1,4-Dichlorobenzene	ND		0.196	ug/L	4	05/10/23 22:31	EPA 8270E							
Surrogate: Nitrobenzene-d5 (Surr)		Recov	very: 67 %	Limits: 44-120 %	4	05/10/23 22:31	EPA 8270E							
2-Fluorobiphenyl (Surr)			69 %	44-120 %	4	05/10/23 22:31	EPA 8270E							
Phenol-d6 (Surr)			22 %	10-133 %	4	05/10/23 22:31	EPA 8270E							
p-Terphenyl-d14 (Surr)			88 %	50-134 %	4	05/10/23 22:31	EPA 8270E							
2-Fluorophenol (Surr)			37 %	19-120 %	4	05/10/23 22:31	EPA 8270E							
2,4,6-Tribromophenol (Surr)			108 %	43-140 %	4	05/10/23 22:31	EPA 8270E							

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Philip Nevenberg

Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3E1053 - 06 07 23 1055

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)													
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes					
Ink-W-002 (A3E1053-01)				Matrix: Wa	ter								
Batch: 23E0269													
Arsenic	4.18		1.00	ug/L	1	05/05/23 20:06	EPA 6020B						
Barium	20.6		2.00	ug/L	1	05/05/23 20:06	EPA 6020B						
Cadmium	ND		0.200	ug/L	1	05/05/23 20:06	EPA 6020B						
Chromium	9.46		2.00	ug/L	1	05/05/23 20:06	EPA 6020B						
Iron	900		50.0	ug/L	1	05/05/23 20:06	EPA 6020B						
Lead	0.810		0.200	ug/L	1	05/05/23 20:06	EPA 6020B						
Manganese	108		1.00	ug/L	1	05/05/23 20:06	EPA 6020B						
Mercury	ND		0.0800	ug/L	1	05/05/23 20:06	EPA 6020B						
Selenium	ND		1.00	ug/L	1	05/05/23 20:06	EPA 6020B						
Silver	ND		0.200	ug/L	1	05/05/23 20:06	EPA 6020B						

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Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23E0395 - EPA 3510C (Fu	uels/Acid	Ext.)					Wat	ter					
Blank (23E0395-BLK1)			Prepared	1: 05/09/23	11:33 Anal	yzed: 05/09/	23 20:39						
NWTPH-HCID													
Gasoline Range Organics	ND		0.100	mg/L	1								
Diesel Range Organics	ND		0.250	mg/L	1								
Oil Range Organics	ND		0.250	mg/L	1								
Surr: o-Terphenyl (Surr)		Reco	wery: 98 %	Limits: 50)-150 %	Dilu	tion: 1x						
4-Bromofluorobenzene (Surr)			22 %	10)-120 %		"						

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Philip Nevenberg

Philip Nerenberg, Lab Director



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Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

	Polychlorinated Biphenyls by EPA 8082A nalyte Result Detection Limit Reporting Limit Units Dilution Spike Amount Source Result % REC RPD Limit RPD Limit ch 23E0393 - EPA 3510C (Neutral pH) Prepared: 05/09/23 11:25 Analyzed: 05/10/23 08:51 Water nk (23E0393-BLK1) Prepared: 05/09/23 11:25 Analyzed: 05/10/23 08:51 <													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes		
Batch 23E0393 - EPA 3510C((Neutral pH)					Wat	ter						
Blank (23E0393-BLK1)			Prepared	1: 05/09/23	11:25 Anal	yzed: 05/10/	/23 08:51					C-07		
EPA 8082A														
Aroclor 1016	ND		0.100	ug/L	1									
Aroclor 1221	ND		0.100	ug/L	1									
Aroclor 1232	ND		0.100	ug/L	1									
Aroclor 1242	ND		0.100	ug/L	1									
Aroclor 1248	ND		0.100	ug/L	1									
Aroclor 1254	ND		0.100	ug/L	1									
Aroclor 1260	ND		0.100	ug/L	1									
Surr: Decachlorobiphenyl (Surr)		Recu	wery: 82 %	Limits: 4	D-135 %	Dilı	ution: 1x					_		
LCS (23E0393-BS1)			Prepared	1: 05/09/23	11:25 Anal	yzed: 05/10/	/23 09:09					C-07		
EPA 8082A														
Aroclor 1016	1.54		0.100	ug/L	1	2.50		62	46-129%					
Aroclor 1260	1.78		0.100	ug/L	1	2.50		71	45-134%					
Surr: Decachlorobiphenyl (Surr)		Reco	wery: 77 %	Limits: 40)-135 %	Dilı	ution: 1x							
LCS Dup (23E0393-BSD1)			Prepared	1: 05/09/23	11:25 Anal	yzed: 05/10/	/23 09:26					C-07, Q-19		
EPA 8082A														
Aroclor 1016	1.70		0.100	ug/L	1	2.50		68	46-129%	10	30%			
Aroclor 1260	1.82		0.100	ug/L	1	2.50		73	45-134%	2	30%			
Surr: Decachlorobiphenyl (Surr)		Reco	wery: 83 %	Limits: 40	7-135 %	Dilu	ution: 1x							

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23E0466 - EPA 3510C	(Acid/Base	Neutral)					Wa	ter					
Blank (23E0466-BLK1)			Prepared	: 05/10/23	14:32 Anal	yzed: 05/10	/23 20:51						
<u>EPA 8270E</u>													
Acenaphthene	ND		0.0200	ug/L	1								
Acenaphthylene	ND		0.0200	ug/L	1								
Anthracene	ND		0.0200	ug/L	1								
Benz(a)anthracene	ND		0.0200	ug/L	1								
Benzo(a)pyrene	ND		0.0300	ug/L	1								
Benzo(b)fluoranthene	ND		0.0300	ug/L	1								
Benzo(k)fluoranthene	ND		0.0300	ug/L	1								
Benzo(g,h,i)perylene	ND		0.0200	ug/L	1								
Chrysene	ND		0.0200	ug/L	1								
Dibenz(a,h)anthracene	ND		0.0200	ug/L	1								
Fluoranthene	ND		0.0200	ug/L	1								
Fluorene	ND		0.0200	ug/L	1								
Indeno(1,2,3-cd)pyrene	ND		0.0200	ug/L	1								
1-Methylnaphthalene	ND		0.0400	ug/L	1								
2-Methylnaphthalene	ND		0.0400	ug/L	1							В-0	
Naphthalene	ND		0.0400	ug/L	1							В-0	
Phenanthrene	ND		0.0200	ug/L	1								
Pyrene	ND		0.0200	ug/L	1								
Carbazole	ND		0.0300	ug/L	1								
Dibenzofuran	ND		0.0200	ug/L	1								
2-Chlorophenol	ND		0.100	ug/L	1								
4-Chloro-3-methylphenol	ND		0.200	ug/L	1								
2.4-Dichlorophenol	ND		0.100	ug/L	1								
2.4-Dimethylphenol	ND		0.100	ug/L	1								
2.4-Dinitrophenol	ND		0.500	ug/L	1								
4.6-Dinitro-2-methylphenol	ND		0.500	ug/L	1								
2-Methylphenol	ND		0.0500	ug/L	1								
3+4-Methylphenol(s)	ND		0.0500	110/I	1								
2-Nitrophenol	ND		0.200	110/I	1								
4-Nitrophenol	ND		0.200	ug/L 110/I	1	-							
Pentachloronhenol (PCP)			0.200	ug/L ug/I	1								
Phenol			0.200	ug/L	1								
1 nonon			0.400	ug/L	1								
2,3,4,0-1etrachiorophenol	ND		0.100	ug/L	1								

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile (Organic	Compoun	ds by EP/	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C ((Acid/Base	Neutral)					Wat	ter				
Blank (23E0466-BLK1)			Prepared	: 05/10/23	14:32 Anal	yzed: 05/10/	/23 20:51					
2,3,5,6-Tetrachlorophenol	ND		0.100	ug/L	1							
2,4,5-Trichlorophenol	ND		0.100	ug/L	1							
2,4,6-Trichlorophenol	ND		0.100	ug/L	1							
Bis(2-ethylhexyl)phthalate	ND		0.400	ug/L	1							
Butyl benzyl phthalate	ND		0.400	ug/L	1							
Diethylphthalate	ND		0.400	ug/L	1							
Dimethylphthalate	ND		0.400	ug/L	1							
Di-n-butylphthalate	ND		0.400	ug/L	1							
Di-n-octyl phthalate	ND		0.400	ug/L	1							
N-Nitrosodimethylamine	ND		0.0500	ug/L	1							
N-Nitroso-di-n-propylamine	ND		0.0500	ug/L	1							
N-Nitrosodiphenylamine	ND		0.0500	ug/L	1							
Bis(2-Chloroethoxy) methane	ND		0.0500	ug/L	1							
Bis(2-Chloroethyl) ether	ND		0.0500	ug/L	1							
2,2'-Oxybis(1-Chloropropane)	ND		0.0500	ug/L	1							
Hexachlorobenzene	ND		0.0200	ug/L	1							
Hexachlorobutadiene	ND		0.0500	ug/L	1							
Hexachlorocyclopentadiene	ND		0.100	ug/L	1							
Hexachloroethane	ND		0.0500	ug/L	1							
2-Chloronaphthalene	ND		0.0200	ug/L	1							
1,2,4-Trichlorobenzene	ND		0.0500	ug/L	1							
4-Bromophenyl phenyl ether	ND		0.0500	ug/L	1							
4-Chlorophenyl phenyl ether	ND		0.0500	ug/L	1							
Aniline	ND		0.100	ug/L	1							
4-Chloroaniline	ND		0.0500	ug/L	1							
2-Nitroaniline	ND		0.400	ug/L	1							
3-Nitroaniline	ND		0.400	ug/L	1							
4-Nitroaniline	ND		0.400	ug/L	1							
Nitrobenzene	ND		0.200	ug/L	1							
2,4-Dinitrotoluene	ND		0.200	ug/L	1							
2,6-Dinitrotoluene	ND		0.200	ug/L	1							
Benzoic acid	ND		2.50	ug/L	1							
Benzyl alcohol	ND		0.200	ug/L	1							
Isophorone	ND		0.0500	ug/L	1							

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23E0466 - EPA 3510C (Acid/Base	Neutral)					Wa	iter					
Blank (23E0466-BLK1)			Prepared	: 05/10/23	14:32 Anal	lyzed: 05/10)/23 20:51						
Azobenzene (1,2-DPH)	ND		0.0500	ug/L	1								
Bis(2-Ethylhexyl) adipate	ND		0.500	ug/L	1								
3,3'-Dichlorobenzidine	ND		1.00	ug/L	1							Q-5	
1,2-Dinitrobenzene	ND		0.500	ug/L	1								
1,3-Dinitrobenzene	ND		0.500	ug/L	1								
1,4-Dinitrobenzene	ND		0.500	ug/L	1								
Pyridine	ND		0.200	ug/L	1								
1,2-Dichlorobenzene	ND		0.0500	ug/L	1								
1,3-Dichlorobenzene	ND		0.0500	ug/L	1								
1,4-Dichlorobenzene	ND		0.0500	ug/L	1								
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 80 %	Limits: 4	4-120 %	Dili	ution: 1x						
2-Fluorobiphenyl (Surr)			78 %	44	4-120 %		"						
Phenol-d6 (Surr)			27 %	10)-133 %		"						
p-Terphenyl-d14 (Surr)			104 %	50	0-134 %		"						
2-Fluorophenol (Surr)			44 %	19	9-120 %		"						
2,4,6-Tribromophenol (Surr)			89 %	43	3-140 %		"						
LCS (23E0466-BS1)			Prepared	: 05/10/23	14:32 Ana	lyzed: 05/10)/23 21:24						
EPA 8270E													
Acenaphthene	2.50		0.0800	ug/L	4	4.00		62	47-122%				
Acenaphthylene	2.47		0.0800	ug/L	4	4.00		62	41-130%				
Anthracene	3.52		0.0800	ug/L	4	4.00		88	57-123%				
Benz(a)anthracene	3.70		0.0800	ug/L	4	4.00		92	58-125%				
Benzo(a)pyrene	3.46		0.120	ug/L	4	4.00		86	54-128%				
Benzo(b)fluoranthene	3.47		0.120	ug/L	4	4.00		87	53-131%				
Benzo(k)fluoranthene	3.40		0.120	ug/L	4	4.00		85	57-129%				
Benzo(g,h,i)perylene	3.99		0.0800	ug/L	4	4.00		100	50-134%				
Chrysene	3.75		0.0800	ug/L	4	4.00		94	59-123%				
Dibenz(a,h)anthracene	3.84		0.0800	ug/L	4	4.00		96	51-134%				
Fluoranthene	4.00		0.0800	ug/L	4	4.00		100	57-128%				
Fluorene	3.05		0.0800	ug/L	4	4.00		76	52-124%				
Indeno(1,2,3-cd)pyrene	3.62		0.0800	ug/L	4	4.00		91	52-134%				
1-Methylnaphthalene	1.97		0.160	ug/L	4	4.00		49	41-120%				
2-Methylnaphthalene	2.11		0.160	ug/L	4	4.00		53	40-121%			B-0	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC	1
3140 NE Broadway Street	

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (A	Acid/Base	Neutral)					Wa	ter				
LCS (23E0466-BS1)			Prepared:	: 05/10/23	14:32 Anal	yzed: 05/10	/23 21:24					
Naphthalene	1.82		0.160	ug/L	4	4.00		45	40-121%			B-(
Phenanthrene	3.43		0.0800	ug/L	4	4.00		86	59-120%			
Pyrene	3.81		0.0800	ug/L	4	4.00		95	57-126%			
Carbazole	4.27		0.120	ug/L	4	4.00		107	60-122%			
Dibenzofuran	2.77		0.0800	ug/L	4	4.00		69	53-120%			
2-Chlorophenol	1.86		0.400	ug/L	4	4.00		46	38-120%			
4-Chloro-3-methylphenol	3.07		0.800	ug/L	4	4.00		77	52-120%			
2,4-Dichlorophenol	2.31		0.400	ug/L	4	4.00		58	47-121%			
2,4-Dimethylphenol	2.36		0.400	ug/L	4	4.00		59	31-124%			
2,4-Dinitrophenol	5.13		2.00	ug/L	4	4.00		128	23-143%			Q-4
4,6-Dinitro-2-methylphenol	5.13		2.00	ug/L	4	4.00		128	44-137%			Q-4
2-Methylphenol	1.77		0.200	ug/L	4	4.00		44	30-120%			
3+4-Methylphenol(s)	1.76		0.200	ug/L	4	4.00		44	29-120%			
2-Nitrophenol	2.25		0.800	ug/L	4	4.00		56	47-123%			
4-Nitrophenol	1.40		0.800	ug/L	4	4.00		35	10-120%			
Pentachlorophenol (PCP)	4.10		0.800	ug/L	4	4.00		102	35-138%			
Phenol	0.887		0.800	ug/L	4	4.00		22	10-120%			
2,3,4,6-Tetrachlorophenol	3.73		0.400	ug/L	4	4.00		93	50-128%			
2,3,5,6-Tetrachlorophenol	3.85		0.400	ug/L	4	4.00		96	50-121%			
2,4,5-Trichlorophenol	3.50		0.400	ug/L	4	4.00		87	53-123%			
2,4,6-Trichlorophenol	2.62		0.400	ug/L	4	4.00		65	50-125%			
Bis(2-ethylhexyl)phthalate	4.84		1.60	ug/L	4	4.00		121	55-135%			
Butyl benzyl phthalate	4.42		1.60	ug/L	4	4.00		110	53-134%			
Diethylphthalate	3.48		1.60	ug/L	4	4.00		87	56-125%			
Dimethylphthalate	3.31		1.60	ug/L	4	4.00		83	45-127%			
Di-n-butylphthalate	22.5		1.60	ug/L	4	4.00		562	59-127%			Q-2
Di-n-octyl phthalate	3.87		1.60	ug/L	4	4.00		97	51-140%			
N-Nitrosodimethylamine	1.10		0.200	ug/L	4	4.00		27	19-120%			
N-Nitroso-di-n-propylamine	2.15		0.200	ug/L	4	4.00		54	49-120%			
N-Nitrosodiphenylamine	3.46		0.200	ug/L	4	4.00		86	51-123%			
Bis(2-Chloroethoxy) methane	2.02		0.200	ug/L	4	4.00		51	48-120%			
Bis(2-Chloroethyl) ether	1.96		0.200	ug/L	4	4.00		49	43-120%			
2,2'-Oxybis(1-Chloropropane)	1.74		0.200	ug/L	4	4.00		43	41-120%			
Hexachlorobenzene	2.89		0.0800	ug/L	4	4.00		72	53-125%			
	2.09		0.0600	ug/L	+	+.00		12	55-123%			

Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (A	Acid/Base	Neutral)					Wa	ter				
LCS (23E0466-BS1)			Prepared	: 05/10/23	14:32 Anal	yzed: 05/10	/23 21:24					
Hexachlorobutadiene	1.45		0.200	ug/L	4	4.00		36	22-124%			
Hexachlorocyclopentadiene	1.75		0.400	ug/L	4	4.00		44	10-127%			Q-4
Hexachloroethane	1.41		0.200	ug/L	4	4.00		35	21-120%			
2-Chloronaphthalene	2.16		0.0800	ug/L	4	4.00		54	40-120%			
1,2,4-Trichlorobenzene	1.61		0.200	ug/L	4	4.00		40	29-120%			
4-Bromophenyl phenyl ether	3.14		0.200	ug/L	4	4.00		79	55-124%			
4-Chlorophenyl phenyl ether	2.90		0.200	ug/L	4	4.00		73	53-121%			
Aniline	1.35		0.400	ug/L	4	4.00		34	10-120%			
4-Chloroaniline	1.89		0.200	ug/L	4	4.00		47	33-120%			
2-Nitroaniline	3.59		1.60	ug/L	4	4.00		90	55-127%			
3-Nitroaniline	4.00		1.60	ug/L	4	4.00		100	41-128%			Q-4
4-Nitroaniline	3.23		1.60	ug/L	4	4.00		81	25-120%			
Nitrobenzene	2.09		0.800	ug/L	4	4.00		52	45-121%			
2,4-Dinitrotoluene	3.74		0.800	ug/L	4	4.00		93	57-128%			
2,6-Dinitrotoluene	3.22		0.800	ug/L	4	4.00		80	57-124%			
Benzoic acid	4.40		4.00	ug/L	4	8.00		55	10-120%			
Benzyl alcohol	1.72		0.800	ug/L	4	4.00		43	31-120%			
Isophorone	2.21		0.200	ug/L	4	4.00		55	42-124%			
Azobenzene (1,2-DPH)	3.31		0.200	ug/L	4	4.00		83	61-120%			
Bis(2-Ethylhexyl) adipate	4.22		2.00	ug/L	4	4.00		105	63-121%			
3,3'-Dichlorobenzidine	15.6		4.00	ug/L	4	8.00		195	27-129%			Q-29, Q-
1,2-Dinitrobenzene	3.43		2.00	ug/L	4	4.00		86	59-120%			
1,3-Dinitrobenzene	3.69		2.00	ug/L	4	4.00		92	49-128%			Q-4
1,4-Dinitrobenzene	3.77		2.00	ug/L	4	4.00		94	54-120%			Q-4
Pyridine	1.08		0.800	ug/L	4	4.00		27	10-120%			
1,2-Dichlorobenzene	1.50		0.200	ug/L	4	4.00		37	32-120%			
1,3-Dichlorobenzene	1.45		0.200	ug/L	4	4.00		36	28-120%			
1,4-Dichlorobenzene	1.47		0.200	ug/L	4	4.00		37	29-120%			
Surr: Nitrobenzene-d5 (Surr)		Reco	overy: 49 %	Limits: 44	4-120 %	Dilı	ution: 4x					
2-Fluorobiphenyl (Surr)			54 %	44	-120 %		"					
Phenol-d6 (Surr)			18%	10	-133 %		"					
p-Terphenvl-d14 (Surr)			95%	50)-134 %		"					
2-Fluorophenol (Surr)			27 %	10	-120 %		"					
2 4 6 Twibyour only on a 1 (Comm			05.0/	17			"					

Apex Laboratories

Philip Nevenberg



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.			I	Project:	Blue He	ron Paper	Mill					
3140 NE Broadway Street			Pro	ject Numb	er: M0496.	02.003				F	<u>Report I</u> D	<u>:</u>
Portland, OR 97232			Proj	ect Manag	er: Jacob F	aust			А	3E1053	- 06 07 2	3 1055
		QU	ALITY CO	NTROI	L (QC) SA	MPLE R	RESULT	S				
		Se	emivolatile (Organic	Compoun	ds by EP	A 8270E					
		Detection	Reporting			Spike	Source		% REC		RPD	
Analyte	Result	Limit	Limit	Units	Dilution	Amount	Result	% REC	Limits	RPD	Limit	Notes
Batch 23E0466 - EPA 3510C (Acid/Base	Neutral)					Wa	iter				
LCS Dup (23E0466-BSD1)			Prepared	: 05/10/23	14:32 Anal	vzed: 05/10)/23 21:57					O-19
EPA 8270E												<u> </u>
Acenaphthene	3.31		0.0800	ug/L	4	4.00		83	47-122%	28	30%	
Acenaphthylene	3.34		0.0800	ug/L	4	4.00		84	41-130%	30	30%	
Anthracene	3.54		0.0800	ug/L	4	4.00		89	57-123%	0.7	30%	
Benz(a)anthracene	3.58		0.0800	ug/L	4	4.00		89	58-125%	3	30%	
Benzo(a)pyrene	3.37		0.120	ug/L	4	4.00		84	54-128%	2	30%	
Benzo(b)fluoranthene	3.38		0.120	ug/L	4	4.00		84	53-131%	3	30%	
Benzo(k)fluoranthene	3.48		0.120	ug/L	4	4.00		87	57-129%	3	30%	
Benzo(g.h.i)pervlene	3.70		0.0800	ug/L	4	4.00		93	50-134%	7	30%	
Chrysene	3.62		0.0800	ug/L	4	4.00		90	59-123%	4	30%	
Dibenz(a,h)anthracene	3.59		0.0800	ug/L	4	4.00		90	51-134%	7	30%	
Fluoranthene	3.27		0.0800	ug/L	4	4.00		82	57-128%	20	30%	
Fluorene	3.64		0.0800	ug/L	4	4.00		91	52-124%	18	30%	
Indeno(1.2.3-cd)pyrene	3.41		0.0800	ug/L	4	4.00		85	52-134%	6	30%	
1-Methylnaphthalene	3.10		0.160	119/L	4	4.00		78	41-120%	45	30%	O-24
2-Methylnaphthalene	3.25		0.160	ug/L	4	4.00		81	40-121%	42	30%	Q-24, B-02
Nanhthalene	3.01		0.160	110/L	4	4 00		75	40-121%	49	30%	O-24. B-02
Phenanthrene	3 41		0.0800	110/L	4	4 00		85	59-120%	0.5	30%	
Pyrene	3 19		0.0800	110/L	4	4 00		80	57-126%	18	30%	
Carbazole	4.01		0.120	ug/L ug/I	4	4 00		100	60-122%	6	30%	
Dibenzofuran	3 53		0.0800	ug/L ug/I	4	4 00		88	53-120%	24	30%	
2-Chlorophenol	2.93		0.400	110/L	4	4 00		73	38-120%	45	30%	O-24
4-Chloro-3-methylphenol	3 47		0.800	110/L	4	4 00		87	52-120%	12	30%	x
2 4-Dichlorophenol	3 21		0.400	110/L	4	4 00		80	47-121%	33	30%	O-24
2 4-Dimethylphenol	2.97		0.400	ug/L 110/I	4	4 00		74	31_124%	23	30%	x = -
2 4-Dinitrophenol	4 70		2 00	ug/L	4	4.00		118	23-143%	9	30%	0-41
4 6-Dinitro-2-methylphenol	4.70		2.00	ug/L ug/I	4	4.00		125	44-137%	3	30%	0-41
2-Methylphenol	2.69		0.200	ug/L	4	4.00		67	30-120%	41	30%	0-24
3+4-Methylphenol(s)	2.09		0.200	ug/L	ч 4	4.00		62	29-120%	34	30%	0-24
2-Nitronhenol	2.70 A 21		0.200	ug/L ug/I	т 4	4.00		105	47_123%	61	30%	~ ² ⁴ 0-24
4-Nitrophenol	1.21		0.000	ug/L	т Л	4.00		34	10_12004	2	30%	Q-24
Pentachlaranhenal (DCD)	2 /1		0.000	ug/L	ч Л	4.00		9 4 85	35_1280/	5 19	30%	
	3.41 ND		1.60	ug/L	4	4.00		37	10 1200/	10 27	3070	0-24
1 IICIIOI 2 2 4 6 Tetrachloronhonol	IND 2.66		0.400	ug/L	4 1	4.00		32 01	50 120%	31 2	30%	Q-24
2,5,4,0-retractiorophenoi	3.00		0.400	ug/L	4	4.00		91	30-128%	2	50%	

Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (A	Acid/Base	Neutral)					Wa	ter				
LCS Dup (23E0466-BSD1)			Prepared:	: 05/10/23	14:32 Anal	yzed: 05/10/	23 21:57					Q-19
2,3,5,6-Tetrachlorophenol	3.72		0.400	ug/L	4	4.00		93	50-121%	3	30%	
2,4,5-Trichlorophenol	3.80		0.400	ug/L	4	4.00		95	53-123%	8	30%	
2,4,6-Trichlorophenol	3.23		0.400	ug/L	4	4.00		81	50-125%	21	30%	
Bis(2-ethylhexyl)phthalate	3.55		1.60	ug/L	4	4.00		89	55-135%	31	30%	Q-2
Butyl benzyl phthalate	3.85		1.60	ug/L	4	4.00		96	53-134%	14	30%	
Diethylphthalate	3.78		1.60	ug/L	4	4.00		95	56-125%	8	30%	
Dimethylphthalate	3.63		1.60	ug/L	4	4.00		91	45-127%	9	30%	
Di-n-butylphthalate	4.05		1.60	ug/L	4	4.00		101	59-127%	139	30%	Q-(
Di-n-octyl phthalate	3.39		1.60	ug/L	4	4.00		85	51-140%	13	30%	
N-Nitrosodimethylamine	1.77		0.200	ug/L	4	4.00		44	19-120%	47	30%	Q-2
N-Nitroso-di-n-propylamine	3.69		0.200	ug/L	4	4.00		92	49-120%	53	30%	Q-2
N-Nitrosodiphenylamine	3.50		0.200	ug/L	4	4.00		88	51-123%	1	30%	
Bis(2-Chloroethoxy) methane	3.44		0.200	ug/L	4	4.00		86	48-120%	52	30%	Q-2
Bis(2-Chloroethyl) ether	3.19		0.200	ug/L	4	4.00		80	43-120%	48	30%	Q-2
2,2'-Oxybis(1-Chloropropane)	3.39		0.200	ug/L	4	4.00		85	41-120%	65	30%	Q-2
Hexachlorobenzene	2.97		0.0800	ug/L	4	4.00		74	53-125%	3	30%	
Hexachlorobutadiene	2.50		0.200	ug/L	4	4.00		62	22-124%	53	30%	Q-2
Hexachlorocyclopentadiene	2.93		0.400	ug/L	4	4.00		73	10-127%	50	30%	Q-24, Q-4
Iexachloroethane	2.76		0.200	ug/L	4	4.00		69	21-120%	65	30%	Q-2
2-Chloronaphthalene	3.20		0.0800	ug/L	4	4.00		80	40-120%	39	30%	Q-2
,2,4-Trichlorobenzene	2.69		0.200	ug/L	4	4.00		67	29-120%	50	30%	Q-2
I-Bromophenyl phenyl ether	3.32		0.200	ug/L	4	4.00		83	55-124%	5	30%	
I-Chlorophenyl phenyl ether	3.49		0.200	ug/L	4	4.00		87	53-121%	18	30%	
Aniline	2.14		0.400	ug/L	4	4.00		54	10-120%	45	30%	Q-2
I-Chloroaniline	2.57		0.200	ug/L	4	4.00		64	33-120%	30	30%	
2-Nitroaniline	4.05		1.60	ug/L	4	4.00		101	55-127%	12	30%	
8-Nitroaniline	4.19		1.60	ug/L	4	4.00		105	41-128%	5	30%	Q-4
4-Nitroaniline	3.66		1.60	ug/L	4	4.00		92	25-120%	13	30%	
Nitrobenzene	3.44		0.800	ug/L	4	4.00		86	45-121%	49	30%	Q-2
2,4-Dinitrotoluene	3.98		0.800	ug/L	4	4.00		100	57-128%	6	30%	
2,6-Dinitrotoluene	3.58		0.800	ug/L	4	4.00		89	57-124%	11	30%	
Benzoic acid	4.40		4.00	ug/L	4	8.00		55	10-120%	0.05	30%	
Benzyl alcohol	2.76		0.800	ц9/Г	4	4.00		69	31-120%	47	30%	0-
sophorone	3.58		0 200	110/I	4	4 00		90	42-124%	48	30%	0-

Apex Laboratories

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi, INC.</u> 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile	Organic	Compour	nds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (/	Acid/Base	Neutral)					Wa	ter				
LCS Dup (23E0466-BSD1)			Prepared	1: 05/10/23	14:32 Ana	lyzed: 05/10	/23 21:57					Q-19
Azobenzene (1,2-DPH)	3.90		0.200	ug/L	4	4.00		98	61-120%	17	30%	
Bis(2-Ethylhexyl) adipate	3.61		2.00	ug/L	4	4.00		90	63-121%	16	30%	
3,3'-Dichlorobenzidine	13.5		4.00	ug/L	4	8.00		168	27-129%	15	30%	Q-29, Q-5
1,2-Dinitrobenzene	3.77		2.00	ug/L	4	4.00		94	59-120%	9	30%	
1,3-Dinitrobenzene	4.13		2.00	ug/L	4	4.00		103	49-128%	11	30%	Q-4
1,4-Dinitrobenzene	4.22		2.00	ug/L	4	4.00		105	54-120%	11	30%	Q-4
Pyridine	2.02		0.800	ug/L	4	4.00		50	10-120%	61	30%	Q-2
1,2-Dichlorobenzene	2.68		0.200	ug/L	4	4.00		67	32-120%	56	30%	Q-2
1,3-Dichlorobenzene	2.62		0.200	ug/L	4	4.00		66	28-120%	58	30%	Q-2
1,4-Dichlorobenzene	2.62		0.200	ug/L	4	4.00		66	29-120%	56	30%	Q-2
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 84 %	Limits: 4	4-120 %	Dili	ution: 4x					
2-Fluorobiphenyl (Surr)			78 %	44	4-120 %		"					
Phenol-d6 (Surr)			26 %	10	0-133 %		"					
p-Terphenyl-d14 (Surr)			93 %	50	0-134 %		"					
2-Fluorophenol (Surr)			42 %	19	9-120 %		"					
2,4,6-Tribromophenol (Surr)			84 %	43	3-140 %		"					

Apex Laboratories

Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	letals by	EPA 6020	B (ICPMS	6)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0269 - EPA 3015A							Wa	ter				
Blank (23E0269-BLK1)			Prepared	: 05/05/23	10:42 Anal	yzed: 05/05/	/23 18:33					
EPA 6020B												
Arsenic	ND		1.00	ug/L	1							
Barium	ND		2.00	ug/L	1							
Cadmium	ND		0.200	ug/L	1							
Chromium	ND		2.00	ug/L	1							
Iron	ND		50.0	ug/L	1							
Lead	ND		0.200	ug/L	1							
Manganese	ND		1.00	ug/L	1							
Mercury	ND		0.0800	ug/L	1							
Selenium	ND		1.00	ug/L	1							
Silver	ND		0.200	ug/L	1							
LCS (23E0269-BS1)			Prepared	: 05/05/23	10:42 Anal	yzed: 05/05/	/23 18:38					
EPA 6020B												
Arsenic	51.1		1.00	ug/L	1	55.6		92	80-120%			
Barium	52.3		2.00	ug/L	1	55.6		94	80-120%			
Cadmium	48.8		0.200	ug/L	1	55.6		88	80-120%			
Chromium	50.3		2.00	ug/L	1	55.6		91	80-120%			
Iron	2730		50.0	ug/L	1	2780		98	80-120%			
Lead	54.3		0.200	ug/L	1	55.6		98	80-120%			
Manganese	51.0		1.00	ug/L	1	55.6		92	80-120%			
Mercury	0.959		0.0800	ug/L	1	1.11		86	80-120%			
Selenium	27.8		1.00	ug/L	1	27.8		100	80-120%			
Silver	25.9		0.200	ug/L	1	27.8		93	80-120%			
Duplicate (23E0269-DUP1)			Prepared	: 05/05/23	10:42 Anal	yzed: 05/05/	/23 19:27					
QC Source Sample: Non-SDG (A3	E0994-01)											
Arsenic	4.56		1.00	ug/L	1		4.68			2	20%	
Barium	5.61		2.00	ug/L	1		5.60			0.3	20%	
Cadmium	ND		0.200	ug/L	1		ND				20%	
Chromium	7.18		2.00	ug/L	1		8.78			20	20%	
Iron	6660		50.0	ug/L	1		8360			23	20%	Q-1
Lead	1.17		0.200	ug/L	1		1.20			3	20%	
Manganese	86.6		1.00	ug/L	1		97.6			12	20%	

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Philip Nevenberg



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project:Blue Heron Paper MillProject Number:M0496.02.003Project Manager:Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	etals by	EPA 6020	B (ICPMS	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0269 - EPA 3015A							Wa	ter				
Duplicate (23E0269-DUP1)			Prepared	: 05/05/23	10:42 Ana	lyzed: 05/05	/23 19:27					
QC Source Sample: Non-SDG (A3)	E0994-01)											
Mercury	ND		0.0800	ug/L	1		ND				20%	
Selenium	ND		1.00	ug/L	1		ND				20%	
Silver	ND		0.200	ug/L	1		ND				20%	
Matrix Spike (23E0269-MS1)			Prepared	: 05/05/23	10:42 Ana	lyzed: 05/05	/23 19:32					
QC Source Sample: Non-SDG (A3)	E0994-01)											
<u>EPA 6020B</u>												
Arsenic	58.1		1.00	ug/L	1	55.6	4.68	96	75-125%			
Barium	63.6		2.00	ug/L	1	55.6	5.60	104	75-125%			
Cadmium	54.5		0.200	ug/L	1	55.6	ND	98	75-125%			
Chromium	59.5		2.00	ug/L	1	55.6	8.78	91	75-125%			
Iron	9920		50.0	ug/L	1	2780	8360	56	75-125%			Q-6
Lead	56.6		0.200	ug/L	1	55.6	1.20	100	75-125%			
Manganese	142		1.00	ug/L	1	55.6	97.6	80	75-125%			
Mercury	1.08		0.0800	ug/L	1	1.11	ND	97	75-125%			
Selenium	27.4		1.00	ug/L	1	27.8	ND	99	75-125%			
Silver	25.1		0.200	ug/L	1	27.8	ND	90	75-125%			

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Philip Nevenberg

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>Maul Foster & Alongi,</u> 3140 NE Broadway Str Portland, OR 97232	<u>INC.</u> reet	I P	Project: Blue Ho Project Number: M0496. roject Manager: Jacob F		<u>Report ID:</u> A3E1053 - 06 07 23 1055		
		SAMPLE	E PREPARATION I	INFORMATION			
		Hydrocarbor	n Identification Scree	n by NWTPH-HCID			
Prep: EPA 3510C (Fu	els/Acid Ext.)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23E0395			*	*			
A3E1053-01	Water	NWTPH-HCID	05/05/23 08:20	05/09/23 11:33	1020mL/5mL	1000mL/5mL	0.98
[Dolugh	Jorinated Pinhanyla				
<u> </u>		Folych		DY EFA 0002A			
Prep: EPA 3510C (No	<u>eutral pH)</u>				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23E0393</u> A3E1053-01	Water	EPA 8082A	05/05/23 08:20	05/09/23 11:25	1000mL/5mL	1000mL/5mL	1.00
		Semivolati	le Organic Compour	nds by EPA 8270E			
Prep: EPA 3510C (Ac	id/Base Neutral)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23E0466			*	*			
A3E1053-01RE1	Water	EPA 8270E	05/05/23 08:20	05/10/23 14:32	1020mL/1mL	1000mL/1mL	0.98
		T -1-					
		lota	I Metals by EPA 602	OB (ICPMS)			
Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23E0269							
A3E1053-01	Water	EPA 6020B	05/05/23 08:20	05/05/23 10:42	45mL/50mL	45mL/50mL	1.00

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Philip Nevenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland. OR 97232 Project: Blue Heron Paper Mill
Project Number: M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B-02 Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-17 RPD between original and duplicate sample is outside of established control limits.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-24 The RPD for this spike and spike duplicate is above established control limits. Recoveries for both the spike and spike duplicate are within control limits.
- Q-29 Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52 Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-65 Spike recovery is estimated due to the high analyte concentration of the source sample.

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Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232

Project: Blue Heron Paper Mill

Project Number: M0496.02.003 Project Manager: Jacob Faust <u>Report ID:</u> A3E1053 - 06 07 23 1055

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- <u>" dry"</u> Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "____ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"--- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

"*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232 Project: <u>Blue Heron Paper Mill</u> Project Number: M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Philip Nerenberg, Lab Director



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Blue Heron Paper Mill
Project Number: M0496.02.003

Project Manager: Jacob Faust

<u>Report ID:</u> A3E1053 - 06 07 23 1055

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories	A	T . L		4	
	Anev	Lar	nnra	tories	
	TAPCA	Lui	<u>, or a</u>	101105	

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Philip Nevenberg

Philip Nerenberg, Lab Director



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Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	<u>Report ID:</u>
Portland, OR 97232	Project Manager: Jacob Faust	A3E1053 - 06 07 23 1055
Client: Project/F Delivery Date/time Delivered Cooler In Chain of C Signed/da Temperatu Custody sa Received o Temp. blar	Project Manager: Jacob Faust APEX LABS COOLER RECEIPT FORM MFA Element WO#: A3 \pm 1053 Project #: Bloce Hero γ / M O(96.02.003) Info: project #: D15 by: Apex_Client ESS_FedEx_UPS_Radio_Morgan_SDS_Evergreen_Other_ spection Date/time inspected: $5 \cdot 5 \cdot 2 \cdot 3 \otimes 2 \otimes 4444$ By: D35 Custody included? Yes No	A3E1053 - 06 07 23 1055
Temp. blar	nks? (Y/N) <u>N</u>	_
Ice type: (C	Jel/Real/Other) <u>Real</u>	
Cooler out Green dots Out of tem Sample In:	of temp? (Y/X) Possible reason why: applied to out of temperature samples? Yes/No perature samples form initiated? Yes/No spection: Date/time inspected: 5,5,2,2,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	-
All samples	s intact? Yes \times No Comments:	-
Bottle label Distand of COC/contain Containers/	s/COCs agree? Yes No \times Comments: <u>Circat Usted containers on every inc</u> <u>an one line. No IP. Rate of the on attric port, filmes youry on com</u> iner discrepancies form initiated? Yes No \times volumes received appropriate for analysis? Yes \times No Comments:	fr.
Do VOA via Comments	als have visible headspace? Yes No <u>×_</u> NA	
Water sample Comments:	es: pH checked: Yes <u>>NoNA</u> pH appropriate? Yes <u>X_NoNA</u>	:
Additional in	nformation:	
Labeled by: のブジ	Witness: $\int \mathcal{F}$ Cooler Inspected by: $\mathcal{D} \mathcal{I} \mathcal{S}$ Form Y-003 R-00) -

Apex Laboratories

Philip Nevenberg



CERES Analytical Laboratory, Inc. 4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762



Ceres ID: 16344

May 10, 2023

Apex Laboratories 6700 S.W. Sandburg Street Tigard, OR 97223

The following report contains the results for the one aqueous sample received on May 6, 2023. This sample was analyzed for tetra through octa chlorinated dioxins and dibenzofurans by EPA method 1613. Rush turn-around time was provided for this work.

This work was authorized under Apex Laboratories' Project # A3E1053.

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,

an the

James M. Hedin Director of Operations/CEO <u>jhedin@ceres-lab.com</u>

Section I: Sample Inventory

<u>Ceres Sample ID:</u>	<u>Sample ID</u>	Date Received	Collection Date & Time
16344-001	Ink-W-002	5/6/2023	5/5/2023 8:20
	(A3E1053-01)		

Section II: Data Summary



EPA Method 1613B

Quality As	surance Sampl	e			Date Received: NA					
Met	nod Blank		QC	Batch #:	2858		Date Extracte	d: 5/8/2023		
			-	Matrix:	Aqueous		Date Analyze	d: 5/9/2023		
Project ID:	A3E1053		Sam	ple Size:	1.000 L					
Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers		
2,3,7,8-TCDD	DL= 1.95	0.887	5.00		13C-2378-TCDD	83.0	25-164			
12378-PeCDD	DL= 4.25	2.56	25.0		13C-12378-PeCDD	101	25-181			
123478-HxCDD	DL= 5.71	3.08	25.0		13C-123478-HxCDD	70.6	32-141			
123678-HxCDD	DL= 5.00	5.29	25.0		13C-123678-HxCDD	99.2	28-130			
123789-HxCDD	DL= 4.93	13.1	25.0		13C-1234678-HpCDD	74.1	23-140			
1234678-HpCDD	DL= 4.72	5.15	25.0		13C-OCDD	60.8	17-157			
OCDD	DL= 12.2	8.50	50.0		13C-2378-TCDF	74.1	24-169			
2,3,7,8-TCDF	DL= 1.51	0.733	5.00		13C-12378-PeCDF	96.5	24-185			
12378-PeCDF	DL= 2.89	2.96	25.0		13C-23478-PeCDF	93.6	21-178			
23478-PeCDF	DL= 2.89	5.40	25.0		13C-123478-HxCDF	84.3	26-152			
123478-HxCDF	DL= 4.00	3.93	25.0		13C-123678-HxCDF	99.5	26-123			
123678-HxCDF	DL= 3.66	2.94	25.0		13C-234678-HxCDF	93.1	28-136			
234678-HxCDF	DL= 4.90	4.32	25.0		13C-123789-HxCDF	98.4	29-147			
123789-HxCDF	DL= 6.31	4.70	25.0		13C-1234678-HpCDF	81.1	28-143			
1234678-HpCDF	DL= 6.76	4.24	25.0		13C-1234789-HpCDF	83.7	26-138			
1234789-HpCDF	DL= 6.85	5.74	25.0							
OCDF	DL= 9.27	11.7	50.0							
Totals	Conc. (pg/L)	EMPC			CRS					
Total TCDD	DL= 1.95				37Cl4-2378-TCDD	103	35-197			
Total PeCDD	DL= 4.25									
Total HxCDD	DL= 5.71				DL - Signifies Non-Detect	(ND<) samp	le specific detection li	nit.		
Total HpCDD	DL= 4.72				EMPC - Estimated Maximum Possible Concentration due to ion abundance					
Total TCDF	DL= 1.51				ratio failure.					
Total PeCDF	DL= 2.89				(a) - Lower control limit - Upper control limit					
Total HxCDF	DL= 6.31				(b) - TEQ based on (2005) World Health Organization (WHO) Toxic					
Total HpCDF	DL= 6.85				Equivalent Factors.					

Total Toxic Equivalency (TEQ min.) (b):

0.0 pg/L

Analyst: JMH

Reviewed by: BS



EPA Method 1613B

Quality Assurance Sample				Date I	Received: NA	
Ongoing Precision and Recovery		QC Batch #: 2858		Date E	Date Extracted: 5/8/2023	
		Matrix	x: Aqueous	Date	Analyzed: 5/9/2023	
Project ID:	A3E1053	Sample Size	e: 1.000 L			
Analyte	Conc. (ng/mL)	Limits (a)	Labeled Standards	% Rec.	Limits (a)	
2,3,7,8-TCDD	8.95	6.7-15.8	13C-2378-TCDD	77.1	20-175	
12378-PeCDD	58.6	35-71	13C-12378-PeCDD	90.5	21-227	
123478-HxCDD	48.5	35-82	13C-123478-HxCDD	83.8	21-193	
123678-HxCDD	57.9	38-67	13C-123678-HxCDD	78.6	25-163	
123789-HxCDD	50.0	32-81	13C-1234678-HpCDD	66.1	26-166	
1234678-HpCDD	57.1	35-70	13C-OCDD	54.0	13-198	
OCDD	107	78-144	13C-2378-TCDF	69.1	22-152	
2,3,7,8-TCDF	9.24	7.5-15.8	13C-12378-PeCDF	89.1	21-192	
12378-PeCDF	57.3	40-67	13C-23478-PeCDF	90.1	13-328	
23478-PeCDF	56.4	34-80	13C-123478-HxCDF	83.5	19-202	
123478-HxCDF	52.7	36-67	13C-123678-HxCDF	98.7	21-159	
123678-HxCDF	52.6	42-65	13C-234678-HxCDF	86.0	22-176	
234678-HxCDF	50.1	35-78	13C-123789-HxCDF	89.1	17-205	
123789-HxCDF	50.3	39-65	13C-1234678-HpCDF	70.6	21-158	
1234678-HpCDF	56.7	41-61	13C-1234789-HpCDF	75.4	20-186	
1234789-HpCDF	55.7	39-69				
OCDF	121	63-170				
			CRS			
			37Cl4-2378-TCDD	95.1	31-191	
			(a) Limits based on method	acceptance criteria.		



Client Sample	e ID: Ink-W-002	(A3E105	53-01)					
Project ID:	A3E1053		Ceres Sa	mple ID:	16344-001		Date Receive	d: 5/6/2023
QC Batch #				: 2858 Date Extracted: 5			d: 5/8/2023	
Date Collected: 5/5/2023			Matrix: Aqueous			Date Analyzed: 5/9/2023		
	cieu. 0.20		Jan	JIE JIZE	1.022 L			
Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 1.01	0.887	4.89		13C-2378-TCDD	87.3	25-164	
12378-PeCDD	DL= 2.28	2.56	24.5		13C-12378-PeCDD	95.4	25-181	
123478-HxCDD	DL= 3.45	3.08	24.5		13C-123478-HxCDD	80.9	32-141	
123678-HxCDD	DL= 3.00	5.29	24.5		13C-123678-HxCDD	97.3	28-130	
123789-HxCDD	DL= 2.96	13.1	24.5		13C-1234678-HpCDD	69.9	23-140	
1234678-HpCDD	DL= 1.74	5.15	24.5		13C-OCDD	50.7	17-157	
OCDD	59.6	8.50	48.9		13C-2378-TCDF	78.9	24-169	
2,3,7,8-TCDF	DL= 1.70	0.733	4.89		13C-12378-PeCDF	88.6	24-185	
12378-PeCDF	DL= 1.80	2.96	24.5		13C-23478-PeCDF	87.1	21-178	
23478-PeCDF	DL= 1.65	5.40	24.5		13C-123478-HxCDF	81.6	26-152	
123478-HxCDF	DL= 3.04	3.93	24.5		13C-123678-HxCDF	99.2	26-123	
123678-HxCDF	DL= 3.01	2.94	24.5		13C-234678-HxCDF	93.2	28-136	
234678-HxCDF	DL= 3.70	4.32	24.5		13C-123789-HxCDF	99.6	29-147	
123789-HxCDF	DL= 4.50	4.70	24.5		13C-1234678-HpCDF	70.1	28-143	
1234678-HpCDF	DL= 3.27	4.24	24.5		13C-1234789-HpCDF	83.7	26-138	
1234789-HpCDF	DL= 3.23	5.74	24.5					
OCDF	DL= 4.91	11.7	48.9					
Totals	Conc. (pg/L)	EMPC			CRS			
Total TCDD	DL= 1.01				37Cl4-2378-TCDD	118	35-197	
Total PeCDD	DL= 2.28							
Total HxCDD	DL= 3.45				DL - Signifies Non-Detect	(ND<) sample	e specific detection li	mit.
Total HpCDD	DL= 1.74				EMPC - Estimated Maximu	um Possible (Concentration due to	ion abundance
Total TCDF	DL= 1.70				ratio failure.			
Total PeCDF	DL= 1.80				(a) - Lower control limit - U	pper control	limit	
Total HxCDF	DL= 4.50				(b) - TEQ based on (2005)	World Health	n Organization (WHC)) Toxic
Total HpCDF	DL= 3.27				Equivalent Factors.			

Total Toxic Equivalency (TEQ min.) (b):

0.0179 pg/L

Section VI: Sample Tracking

SUBCONTRACT ORDER

Apex Laboratories

OB SKhz A3E1053

Php 515

SENDING LABORATORY:

Apex Laboratories 6700 S.W. Sandburg Street Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 336-0745 Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc 4919 Windplay Drive, Suite 1 El Dorado Hills, CA 95762 Phone :(916) 932-5011 Fax: -9

			No info on nitric poly. list	ed one container on e
Sample Name: Ink-W-002		Water	Sampled: 05/05/23 08:20	(A3E1053-01)
Analysis	Due	Expires	Comments	
 1613 Dioxin (Sub) Containers Supplied: (K)1 L Amber Glass - Non Preserved (L)1 L Amber Glass - Non Preserved 	05/11/23 17:00	05/04/24 08:20		

4 day TAT

8 Jan	5-5-23	UPS (Ship	oper)	
Released By UPS (Shipper)	Date	Received By	5/6/23 Date 1234	
Released By	Date	Received By	Date	
			38 of Page	= 1 of 1

Sample Receipt Check List Logged by:

(initials)

Ceres ID: 16344		Date/Timer 5/6/23 /234
Client Project ID: A3 E 1053		Received Temp: <u>/.6</u> °C Acceptable: V/N
Chain of Custody Relinquished by signed?	N 19 19 19 19 19 19 19	N N
Chain of Custody Received by signed?		V/N
Custody Seals?	Present?	Y / N
	Intact?	Y/N
	NA:	(NA
Unlabeled / Illegible Samples		Y
Proper Containers:		Y/N
Preservation Acceptable (Chemical or Temperatur	re)?	(Y)/N
Drinking Water, Sodium Thiosulfate present? Residual Cl?		Y NA Y / N/ NA
Aqueous sample pH:		NA
15/8/23		
List Damaged Samples:		
V: 16/2		

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
В	Analyte present in the associated Method Blank.
Е	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
н	Recovery limits exceeded. See cover letter.
*	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

Attachment 7

Dye-Impacted Material Disposal Records



Page 1 of 5

5-37135-35003

ELDER DEMOLITION 06/01/23-06/30/23 07/01/2023 0110668-1515-7

		in	voice Number:	andra an Andra andra andr Andra andra andr		0110668-1515-
How to Contact Us	Yo	ur Payment	is Due		Your Tot	al Due
Visit wmsolutions.com Log in to manage disposal records and tonnage reports. To pay a bill or explore other online tools, visit wm.com/MyWM. Have a question? Fill out the Contact Us Form at WMSolutions.com or contact	0	7/31/2	023		\$50,63	37.30
Customer Service: (509) 662-4591	If full payment within your or monthly late cha minimum mo allowed unde	t of the invoiced am ontractual terms, yc rige of 2.5% of the nthly charge of \$5, r applicable law, reg	nount is not received ou may be charged a unpeid amount, with a , or such late charge gulation or contract.			
Previous Balance + Payments	+	Adjustmen	ts + C	urrent Inv Charge 50.637.3	voice s =	Total Account Balance Due 50,637.30
633.40 (633.40) Details for Service Location:	DE	TAILS OF SE	RVICE	omer ID:	5-37135-3500	03
633.40 (633.40) etails for Service Location: lder Demolition, 6400 SE 101st Ave Ste 24	DE 01, Portland Date	TAILS OF SE OR 97266-5 Ticket	RVICE Custo i142 Ouantity	omer ID:	5-37135-3500	03 Amount
633.40 (633.40) etails for Service Location: Ider Demolition, 6400 SE 101st Ave Ste 24 escription shicle#: NONE D#:1403480R ROFILE FEE \$85 ofile # 1403480R enerator BLUE HERON PAPER MILL 300 MAIN ST REGON CITY cket Total	DE 01, Portland 06/07/23	TAILS OF SE OR 97266-5 Ticket 1685085	RVICE Custo 142 Quantity 1.00	omer ID: Unit of Measure ECH	5-37135-3500 Rate 80.00	D3 Amount 0.00 0.00 80.00 0.00 0.00 0.00 80.00
633.40 (633.40) etails for Service Location: Ider Demolition, 6400 SE 101st Ave Ste 24 escription ahicle#: NONE D#:1403480R ROFILE FEE \$85 ofile # 1403480R enerator BLUE HERON PAPER MILL 300 MAIN ST REGON CITY cket Total shicle#: 2 D#:2114 secial Waste Misc	DE 01, Portland 06/07/23 06/08/23	TAILS OF SE OR 97266-5 Ticket 1685085 1685174	RVICE Custo 142 Quantity 1.00 28.16	Dimer ID: Unit of Measure ECH ECH	5-37135-3500 Rate 80.00 110.00	D3 Amount 0,00 0,00 80,00 0,00 0,00 80,00 0,00 0
633.40 (633.40) etails for Service Location: Ider Demolition, 6400 SE 101st Ave Ste 24 escription shicle#: NONE D#:1403480R ROFILE FEE \$85 ofile # 1403480R enerator BLUE HERON PAPER MILL 300 MAIN ST REGON CITY cket Total shicle#: 2 D#:2114 pecial Waste Misc 	DE 01, Portland 06/07/23 06/08/23 h and send the i	TAILS OF SE OR 97266-5 Ticket 1685085 1685174 wwer portion with	RVICE Custo 142 Quantity 1.00 28.16	Dimer ID: Unit of Measure ECH ECH TON	5-37135-3500 Rate 80.00 110.00	D3 Amount 0,00 0,00 80,00 0,00 0,00 80,00 0,00 0
633.40 (633.40) etails for Service Location: der Demolition, 6400 SE 101st Ave Ste 20 escription shicle#: NONE D#:1403480R ROFILE FEE \$85 ofile # 1403480R enerator BLUE HERON PAPER MILL 300 MAIN ST REGON CITY cket Total shicle#: 2 D#:2114 becial Waste Misc Please detace	DE 01, Portland 06/07/23 06/08/23 h and send the l	TAILS OF SE OR 97266-5 Ticket 1685085 1685174	RVICE Custo i142 Quantity 1.00 28.16 h payment (no Invo	omer ID: Unit of Measure ECH ECH TON cash or staple oice Numb	5-37135-3500 Rate 80.00 110.00 es)	D3 Amount 0,00 0,00 80,00 0,00 0,00 80,00 0,000 0,00 0,00 0,00 0,00 0,00 0,00 0,0
633.40 (633.40) etails for Service Location: Ider Demolition, 6400 SE 101st Ave Ste 24 escription ehicle#: NONE O#:1403480R ROFILE FEE \$85 rofile # 1403480R enerator BLUE HERON PAPER MILL 300 MAIN ST REGON CITY icket Total ehicle#: 2 O#:2114 becial Waste Misc MILLSBORO LANDFILL INC.	DE 01, Portland 06/07/23 06/08/23 h and send the l	0.00 TAILS OF SE OR 97266-5 Ticket 1685085 1685174 1685174 ower portion with voice Date 07/01/2023	RVICE Custo 142 Quantity 1.00 28.16 h payment (no Inv. 011	Dimer ID: Unit of Measure ECH ECH TON cash or staph oice Numb	5-37135-3500 Rate 80.00 110.00 es)	D3 Amount 0,00 0,00 80,00 0,00 80,00 0,00 80,00 0,00 80,00 0,

INVOICE

Customer ID:

Customer Name:

Service Period:



~----

1515000053713535003001106680000506373000005063730 4

0053904 01 AB 0.507 **AUTO T4 2 7184 97266-514251 -C04-P53957-11

6400 SE 101ST AVE SUITE 201 PORTLAND OR 97266-5142



11574L75

Remit To: AS PAYMENT AGENT PO BOX 541065 LOS ANGELES, CA 90054-1065



rayezuiu	Pag	e 2	of	5
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0053904-0000001-0072275

If your service is suspended for non-payment, you may be charged a Resume charge to restart your service. For each returned check, a charge will be assessed on your next invoice equal to the maximum amount permitted by applicable state law.

Check Here to Change Contact Info		Check Here to Sign Up for Automatic Payment Enrollment If I enroll in Automatic Payment services, I authorize WM to pay my invoice by electronically deducting money from my bank account. I can cancel authorization by notifying WM at		
List your new billing information below. For a change of service address, please contact WM .				
Address 1		wm.com or by calling the customer service number listed on my invoice. Your enrollment		
Address 2		payment until page one of your invoice reflects that your payment will be deducted.		
City				
State		Email		
Zip		Date		
Email		Bank Account		
Date Valid		Holder Signature		

NOTICE: By sending your check, you are authorizing the Company to use information on your check to make a one-time electronic debit to your account at the financial institution indicated on your check. The electronic debit will be for the amount of your check and may occur as soon as the same day we receive your check.

In order for us to service your account or to collect any amounts you may owe (for non-marketing or solicitation purposes), we may contact you by telephone at any telephone number that you provided in connection with your account, including wireless telephone numbers, which could result in charges to you. Methods of contact may include text messages and using pre-recorded/artificial voice messages and/or use of an automatic dialing device, as applicable. We may also contact you by email or other methods as provided in our contract.

Please send all bankruptcy correspondence to RMCbankruptcy@wm.com or PO Box 43290 Phoenix, AZ 85080. Using the email option will expedite your request. (this language is in compliance with 11 USC 342(c)(2) of the Bankruptcy Code)


Customer ID:

Customer Name: Service Period: Invoice Date: Invoice Number:

5-37135-35003

ELDER DEMOLITION 06/01/23-06/30/23 07/01/2023 0110668-1515-7

DETAILS OF SERVICE - continued

Details for Service Location:

Customer ID: 5-37135-35003

Elder Demolition, 6400 SE 101st Ave Ste 201, Portland OR 97266-5142

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
PO#:BLUE HAREONING Special Waste Misc Standard Environmental Fee – Large (Landfill) Profile # 14034808			19.99 1.00	TON LOD	110.00 30.00	0.00 2,198.90 30.00
Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY						0.00
Manifest#: NA Ticket Total						0.00 2,228.90
Vehicle#: 128-SOLO PO#:BLUE HARRONING	06/08/23	1685178				0.00 0.00
Special Waste Misc Standard Environmental Fee – Large (Landfill) Profile # 1403480R			20.16 1.00	LOD	110.00 30.00	2,217.60 30.00 0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY Manifest#: NA						0.00
Ticket Total						2,247.60
Vehicle#: 5-SOLO PO#:BLUE HARRONING Special Waste Misc	06/08/23	1685185	20 47	TON	110.00	0.00 0.00 2.241.70
Standard Environmental Fee - Large (Landfill) Profile # 1403480R Generator BLUE HERON PAPER MILL 300 MAIN ST			1.00	LOD	30.00	3,241.70 30.00 0.00
OREGON CITY Manifest#: NA Ticket Totai				-		0.00 3,271.70
Vehicle#: 121- SOLO PO#:BLUE HARRAN	06/08/23	1685234				0.00
Special Waste Misc Standard Environmental Fee – Large (Landfill) Profile # 1403480R Generator BLUE HERON PAPER MILL 300 MAIN ST			21.94 1.00	TON LOD	110.00 30.00	2,413.40 30.00 0.00 0.00
OREGON CITY Manifest#: NA Ticket Total				•		0.00 2,443.40
Vehicle#: 2 PO#:2114	06/08/23	1685235		· ·		0.00
Special Waste Misc Standard Environmental Fee - Large (Landfill) Profile # 1403480R Generator BLUE HERON PAPER MILL 300 MAIN ST			24.28 1.00	TON LOD	110.00 30.00	2,670.80 30.00 0.00 0.00
OREGON CITY Manifest#: NA Ticket Total						0.00 2,700.80
Vehicle#: 5-SOLO PO#:2114 Special Waste Misc	06/08/23	1685239	2819	TON	110.00	0.00 0.00 3 100 90
Standard Environmental Fee - Large (Landfill) Profile # 1403480R Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY		N .	1.00	LOD	30.00	30.00 0.00 0.00
Manifest#: NA Ticket Total						0.00 3,130.90



DETAILS OF SERVICE - continued Customer ID: 5-37135-35003 **Details for Service Location:** Elder Demolition, 6400 SE 101st Ave Ste 201, Portland OR 97266-5142 Unit of Ticket Amount Description Date Quantity Rate Measure 0.00 Vehicle#: 128-SOLO 06/08/23 1685244 0.00 **PO#:BLUE HERON** 20.46 TON 110,00 2,250.60 Special Waste Misc 30.00 30.00 LOD Standard Environmental Fee - Large (Landfill) 1.00 0.00 Profile # 1403480R Generator BLUE HERON PAPER MILL 300 MAIN ST 0.00 **OREGON CITY** 0.00 Manifest#: NA 2,280.60 **Ticket Total** 1685274 0.00 06/08/23 Vehicle#: 121- SOLO 0.00 **PO#:BLUEHAIN** TON 110.00 2.808.30 25.53 Special Waste Misc 30.00 30.00 Standard Environmental Fee - Large (Landfill) 1.00 LOD 0.00 Profile # 1403480R 0.00 Generator BLUE HERON PAPER MILL 300 MAIN ST **OREGON CITY** 0.00 Manifest#: NA 2,838.30 **Ticket Total** 0.00 06/08/23 1685288 Vehicle#: 5-SOLO 0.00 **PO#:BLUE HERON** 28.55 TON 110.00 3,140.50 Special Waste Misc 30.00 30.00 Standard Environmental Fee - Large (Landfill) 1.00 LOD 0.00 Profile # 1403480R Generator BLUE HERON PAPER MILL 300 MAIN ST 0.00 **OREGON CITY** 0.00 Manifest#: NA 3,170.50 **Ticket Total** 0.00 Vehicle#: 128-SOLO 06/08/23 1685290 0.00 PO#:BLUE HERON 22.03 TON 110.00 2,423.30 Special Waste Misc Standard Environmental Fee - Large (Landfill) 1.00 LOD 30.00 30.00 0.00 Profile # 1403480R Generator BLUE HERON PAPER MILL 300 MAIN ST 0.00 OREGON CITY 0.00 Manifest#: NA 2,453.30 **Ticket Total** 0.00 06/08/23 1685294 Vehicle#: 2 0.00 PO#:2114 110.00 2,623.50 Special Waste Misc 23.85 TON LOD 30.00 30.00 1.00 Standard Environmental Fee - Large (Landfill) 0.00 Profile # 1403480R 0.00 Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY 0.00 Manifest#: NA 2,653.50 **Ticket Total** 0.00 Vehicle#: 121- SOLO 06/08/23 1685323 0.00 **PO#:BLUE HERON** 23.58 TON 110.00 2,593.80 Special Waste Misc Standard Environmental Fee - Large (Landfill) 1.00 LOD 30.00 30.00 0.00 Profile # 1403480R 0.00 Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY 0.00 Manifest#: NA 2,623.80 **Ticket Total** 0.00 Vehicle#: 5-SOLO 06/12/23 1685535 0.00 PO#:2114 3,016.20 Special Waste Misc 27.42 TON 110.00 30.00 LOD 30.00 1.00 Standard Environmental Fee - Large (Landfill)

Profile # 1403480R

0053904-000002-0072276

0.00



Customer ID:

Customer Name: Service Period: Invoice Date: Invoice Number:

5-37135-35003

ELDER DEMOLITION 06/01/23-06/30/23 07/01/2023 0110668-1515-7

DETAILS OF SERVICE - continued

Details for Service Location:

Customer ID: 5-37135-35003

Elder Demolition, 6400 SE 101st Ave Ste 201, Portland OR 97266-5142

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
Manifest#: NA						0.00
Ticket Total						3,046.20
Vehicle#: 7-SOLO	06/12/23	1685538				0.00
PO#:BLUE HERON 2114						0.00
Special Waste Misc			25.49	TON	110.00	2,803.90
Profile # 1403480R			1.00	LOD	30.00	30.00
Generator BLUE HERON PAPER MILL 300 MAIN ST		· · ·				0.00
OREGON CITY		· · · .				
		-				0.00
						2,833.90
Vehicle#: 5-SOLO	06/12/23	1685572				0.00
PO#:BLUE HERON						0.00
Special Waste Misc			29.32	TON	110.00	3,225.20
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Generator BLUE HERON PAPER MILL 300 MAIN ST		1. 				0.00
OREGON CITY			- -			0.00
Manifest#: NA						0.00
Ticket Total		· · ·				3,255.20
Vehicle#: 7-SOLO	06/12/22	1605500				
PO#:BLUE HERON	00/12/23	1085583				0.00
Special Waste Misc		· ·	30.82	TON	110.00	3 390 20
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 1403480R						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST		а. ^т	н. Н			0.00
Manifest#· NA						
Ticket Total						0.00
						5,420.20
Vehicle#: 7~SOLO	06/19/23	1686305				0.00
PO#:BLUE HERING						0.00
Special Waste Misc			10.57	TON	110.00	1,162.70
Profile # 1403480B			1.00	LOD	30.00	30.00
Generator BLUE HERON PAPER MILL 300 MAIN ST			4 C	•		0.00
OREGON CITY						0.00
Manifest#: NA						0.00
Ticket Total						1,192.70
Vehicle#: 7-SOLO	06/19/23	1686358				0.00
PO#:BLUE HERION						0.00
Special Waste Misc			14.62	TON	110.00	1,608.20
Standard Environmental Fee – Large (Landfill)			1.00	LOD	30.00	30.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						0.00
Manifest#: NA				ſ		0.00
Ticket Total						1,638.20
Total Current Charges						
rotal carrent charges					1	50,637.30

and the second s	NON-HAZARDOUS 0	RN001002	618 ^{2.P}	age 1 of 3. E	mergency Respons 503-252-6	e Phone 3144	4. Waste Tr	B H	IPM -		
5. G Gen	enerator's Name and Malling Ad Nº Confederated In 1615 Grand Ronde R Brand Ronde OR 97 erator's Phone: 503 875	bess of Grand Ronde Id. 7347 9-2404	Att: Ryan W	ebb Gen The 300 Ore	erator's Site Addres Confederation Main Street gon City OF	ss út different að Tribes 8 97045	than mailing adde s of Grano H	konde			
6. Tr	ransporter 1 Company Name						U.S. EPA ID	Number			
F	River City Envrionm	iental					CES	QG			
7. T	ransporter 2 Company Name						U.S. EPA ID	Number			
											_
8. P	esignated Eacility Name and Se Pathot Environmental 1927 NW Front Ave Portland OR 97210	a Address					U.S. EPA ID	Number	7.0		
Faci	lity's Phone: 503 261-9	3800					URD	021	10.	0 1 1	0
	9 Waste Shipping Name and	d Description			10. Con	tainers	11. Total	12. Unit			
	a. trans a spin-g cante and				No.	Туре	Quantity	WL/VOI.			
	Non-RCRA, non-E (Dye Impacted de	DOT molition water)			001	π	00000	G			
	2.						62SC	1			10200
	a. Mani	fest # 14.	8320	145							
-	Truck 21	CERTIFICATION: I hereby declare that	t the contents of this cons	gnment are fu	HHO Ily and accurately d	escribed abo	ve by the proper st	hipping name	e, and are cla	issified, packa	aged
14. Ger	GENERATOR'S/OFFEROR'S C marked and labeled/placarded, a nerator's/Offeror's Printed/Typed Zachary Flenniken or	and are in all respects in proper condit I Name I behalf of Grand Ronde	tion for transport according	Signatu		Fle	nnik	en	Ma	5 ZY	2
14. Ger 2 15.	GENERATOR'S/OFFÉROR'S C marked and labeled/placarded, in nerator's/Offeror's Printed/Typed Zachary Flenniken or International Shipments	and are in all respects in proper condit I Name n behalf of Grand Ronde Import to U.S.	tion for transport according	signatu Signatu	international and no		nnik	en	M	5 ZY	2
14. Ger 2 4 15. Trai	GENERATOR'SIGFFÉROR'S C marked and labeled/placarded, nerator's/Offeror's Printed/Typed Zachary Flenniken or International Shipments insporter Signature (for exports of recensories Achinesidedment of	and are in all respects in proper condit i Name behalf of Grand Ronde Import to U.S. snly): Baceint of Materials	tion for transport according	Signatu Signatu bort from U.S.	International and no Port of Date let	entry/exit:aving U.S.:	ny k	en		onth Day 5 Z4	2
14. Ger 15. Trai 16. Trai	GENERATOR SIGPERON'S C marked and labeled/placarded, meator's Printed/Typed Zachary Flenniken or International Shipments insporter Signature (for exports c Transporter Acknowledgment of insporter Printed/Typed Name maporter 2 Printed/Typed Name	and are in all respects in proper condit Name Dehalf of Grand Ronde Import to U.S. anty): receipt of Materials GNOSIM	ion for transport according	Signatu	international and nu pack Port of Date le re	entry/exit:	nnik	len-	M	onth Day 5 24 onth Day 30 onth Day	
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14. Ger 2 15. Trai 16. Trai 17. 17. 17.	GENERATOR SIGPERON'S C marked and labelediplicarded, meator's Printed/Typed Zachary Flemniken or International Shipments insporter Signature (for exports c Transporter Acknowledgment of insporter Printed/Typed Name Sector 2 Printed/Typed Name Discrepancy a. Discrepancy Indication Space	and are in all respects in proper condit is Name behalf of Grand Ronde Import to U.S. only): If Receipt of Materials Galaction Quantity	Experimental according	sto appicative Signatu Nort from U.S. Signatu	Port of Date let	entrylexit:		ejection	Mi Mi S Mi	Anth Day S Z 4 Anth Day S 30 Anth Day Full Reje	
14. Ger 2 3 14. 14. 14. 2 3 15. 16. 17a 17a 17b 17b 17b	GENERATOR SIGPEROR'S C marked and labelediplicanded, nearabor/siOfferor's Printed/Typed Zachary Flemmiken or International Shipments nsporter Signature (for exports o Transporter Acknowledgment of nsporter Printed/Typed Name Discrepancy a. Discrepancy Indication Space	and are in all respects in proper condit is Name behalf of Grand Ronde in protection to U.S. softy): It Receipt of Materials Coustity Coustity r)	Ion for transport according	sto appicable Signatu Signatu Signatu	Port of Date le re Residue Manifest Reference	e Number:	Partial Re	ejection Number	Ma Ma Ma	Anth Day	cior
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4927 NW Front Ave. Portland, OR 97210 P: 503-261-9800 F: 503-261-9900

Profile #: 562523 Wash Out _Yes _No

2425 Gal

PO#		
Truck ID #	509	
Receiving Manifest #	148365	11:50
Date:	5-3 - 2023	
Customer Name:	IZCE	
Waste Description	WASH WATEN	
Driver Name:	115/04	
County Picked Up In:		

Environmental S	EVICES) P: 503-261-9800 F: 503-261-9900	Profile #: 562523
		Wash Out 汝YesNo GRBSS 54600 1b ∖
PO#		
Truck ID #	205	11:0/MH 03/31/2023 / 227 20
Receiving Manifest #	148366	12.09 71(00.1)
Date:	\$ 5/31/2023	11 - 570k 05 (31 (2003
Customer Name:	River City	II-51HR 05/51/2025
Waste Description	industrial	
Driver Name:	Ronovan	
County Disked Up In	Clackanas	

5. G	WASTE MANIFEST	Address	0 2 6 1 8 Att: Ry	1 Van Webb _Ger	503-252-	6144 ss (if differen	t than mailing add	B H	PM-
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6.T	ransporter 1 Company Name	79-2404					U.S. EPA IC	Number	
F	River City Envrion	mental					CES	OG	
7.T	ransporter 2 Company Name						U.S. EPA ID	Number	
8. D	esignated Eacility Name and S	ite Address					U.S. EPA ID	Number	
4 P	1927 NW Front Ave Portland OR 97210							0.0.7	704949
Faci	lity's Phone: DU3 201-	9000			10.000	teleses.	URD	021	104610
	9. Waste Shipping Name a	nd Description			10. Con	Tune	11. Total Quantity	12. Unit	
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	(Dye Impacted de	emolition water)			001	π	<i>5509</i> 105080	G	
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	3.								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	4.								
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4927 NW Front Ave. Portland, OR 97210 P: 503-261-9800 F: 503-261-9900

Profile #: 562523 OLIRED Wash Out _Yes _No

PO#	here and the second sec
Truck ID #	509
Receiving Manifest #	148374 24
Date:	5-31-2023
Customer Name:	F.C.E.
Waste Description	WASTEWATER
Driver Name:	bisby
County Picked Up In:	1

3070 GAL

WASTE MANIFEST	O R N 0 0 1 0	02618	2. Page 1 of 3.	Emergency Respor 503-252-	nse Phone 6144	4. Waste 1	Tracking Nu B	mber HPM-
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6. Transporter 1 Company	Name					U.S. EPA ID	Number	
River City Env	rionmental					CES	QG	
7. Transporter 2 Company	Name					U.S. EPA ID	Number	
8. Designated Eacility Nam	e and Site Address			_		U.C. CDA ID	Number	
4927 NW From Portland OR 9	Ave 7210							
Facility's Phone: 003	201-9000			10.00	ate le ser	ORD	027	704816
9. Waste Shipping I	Vame and Description			No.	Type	11. Total Quantity	12. Unit Wt/Vol.	
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	6. Transporter 1 Company Nar River City Envric	nnental								U.S. EPA II	Number			
	7. Transporter 2 Company Nar	ne								U.S. EPA I	O Number			
	8. Designated Facility Name an Patriot Environme 4927 NW Front A Portland OR 972	nd Site Address Intal Ve 10								U.S. EPA I	Number	7.0.4	0.4	
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PO# Truck ID # Receiving Manifest # Date: Customer Name: Waste Description Driver Name:

Attachment 8

Oil-Stained Concrete Disposal Records





Ph: 503-281-1637 ext 3 www.deanscom.com accounting@deanscom.com

6400 SE 101st Ave - X4, Portland, Oregon 97266 Commercial & Residential Divisions

Date Invoice

8/1/2023

12955

Ship To

Bill To

Elder Demolition INC 6400 SE 101st AVE SUITE 201 Portland, OR 97266

Project	Ticket No.	S.	0,	Terms
Job #2112 Blue Heron	010542		an and an an and an	Net 15
Description	Invoiced	Rate	Date	Amount
Truck 7/John Price Elder Blue Heron job 2112 hauling concrete from jobsite to Hillsboro	8	145.00	8/1/2023	1,160.00
		Total		\$1,160.00
		Paymer	nts/Credits	\$0.00

Balance Due

\$1,160.00

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12

**ALL JOBS ARE BILLED BY THE 1/4 HOUR AT A 4 HOUR MINIMUM. (UNLESS SPECIFIED IN WRITING) NET 15 TERMS

This order is subject to our terms and conditions WHITE - Original YELLOW - Billing PINK - Sub Truck GOLDENROD - Customer **Attachment 9**

AST Analytical Reports





Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Thursday, April 20, 2023 Jerry Wade NRC 6211 N Ensign St Portland, OR 97217

RE: A3C1137 - Maul Foster Alongi - 189690

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3C1137, which was received by the laboratory on 3/30/2023 at 3:40:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>dthomas@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Default Cooler

(See Cooler Receipt Form for details) 0.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project: <u>Maul Foster Alongi</u>	
6211 N Ensign St	Project Number: 189690	<u>Report ID:</u>
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION							
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received			
Tank 4-T	A3C1137-01	Liquid	03/29/23 10:00	03/30/23 15:40			
Tank 2-T	A3C1137-02	Solid	03/29/23 10:30	03/30/23 15:40			
Tank 0-T	A3C1137-03	Solid	03/29/23 10:40	03/30/23 15:40			

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project: <u>Maul Foster Alongi</u>	
6211 N Ensign St	Project Number: 189690	<u>Report ID:</u>
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 4-T (A3C1137-01)				Matrix: Liqui	id	Batch:	23D0071	
Gasoline Range Organics	ND		38500	mg/kg	100	04/04/23 14:31	NWTPH-HCID	
Diesel Range Organics	DET		96200	mg/kg	100	04/04/23 14:31	NWTPH-HCID	F-11
Oil Range Organics	ND		192000	mg/kg	100	04/04/23 14:31	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)			Recovery: %	Limits: 50-150 %	100	04/04/23 14:31	NWTPH-HCID	S-01
4-Bromofluorobenzene (Surr)			%	50-150 %	100	04/04/23 14:31	NWTPH-HCID	S-01

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC				
6211 N Ensign St				
Portland, OR 97217				

Project:Maul Foster AlongiProject Number:189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 4-T (A3C1137-01)				Matrix: Liqu	id	Batch: 2	23D0198	C-07
Aroclor 1016	ND		0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1221	ND		0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1232	ND		0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1242	ND		0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1248	ND		0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1254	ND		0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1260	ND		0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recove	ery: 98 %	Limits: 60-125 %	1	04/07/23 08:55	EPA 8082A	
Tank 2-T (A3C1137-02)				Matrix: Solid	ł	Batch: 2	23D0145	C-07
Aroclor 1016	ND		0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1221	ND		0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1232	ND		0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1242	ND		0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1248	ND		0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1254	ND		0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1260	ND		0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recove	ery: 97 %	Limits: 60-125 %	2	04/06/23 11:14	EPA 8082A	
Tank 0-T (A3C1137-03)				Matrix: Solid	ł	Batch: 2	23D0145	C-07
Aroclor 1016	ND		0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	Q-42
Aroclor 1221	ND		0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	Q-42
Aroclor 1232	ND		0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	Q-42
Aroclor 1242	ND		0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	Q-42
Aroclor 1248	ND		0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	Q-42
Aroclor 1254	ND		0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	
Aroclor 1260	ND		0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recove	ery: 73 %	Limits: 60-125 %	2	04/06/23 11:50	EPA 8082A	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project: Maul Foster A	longi
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Tank 4-T (A3C1137-01)				Matrix: Lic	quid	Batch:	23D0179	R-04
Acenaphthene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Acenaphthylene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Anthracene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benz(a)anthracene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benzo(a)pyrene	ND		107	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benzo(b)fluoranthene	ND		107	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benzo(k)fluoranthene	ND		107	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benzo(g,h,i)perylene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Chrysene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Dibenz(a,h)anthracene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Fluoranthene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Fluorene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
1-Methylnaphthalene	ND		143	mg/kg	100	04/05/23 21:17	EPA 8270E	
2-Methylnaphthalene	ND		143	mg/kg	100	04/05/23 21:17	EPA 8270E	
Naphthalene	ND		143	mg/kg	100	04/05/23 21:17	EPA 8270E	
Phenanthrene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Pyrene	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Carbazole	ND		107	mg/kg	100	04/05/23 21:17	EPA 8270E	
Dibenzofuran	ND		71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
2-Chlorophenol	ND		357	mg/kg	100	04/05/23 21:17	EPA 8270E	
4-Chloro-3-methylphenol	ND		714	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,4-Dichlorophenol	ND		357	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,4-Dimethylphenol	ND		357	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,4-Dinitrophenol	ND		1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND		1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
2-Methylphenol	ND		179	mg/kg	100	04/05/23 21:17	EPA 8270E	
3+4-Methylphenol(s)	ND		179	mg/kg	100	04/05/23 21:17	EPA 8270E	
2-Nitrophenol	ND		714	mg/kg	100	04/05/23 21:17	EPA 8270E	
4-Nitrophenol	ND		714	mg/kg	100	04/05/23 21:17	EPA 8270E	
Pentachlorophenol (PCP)	ND		714	mg/kg	100	04/05/23 21:17	EPA 8270E	
Phenol	ND		143	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND		357	mg/kg	100	04/05/23 21:17	EPA 8270E	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	<u>Report ID:</u>
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

	Semivolatile Organic Compounds by EPA 8270E							
Sample Detection Reporting Date								
Analyte Result Limit Limit Units Dilution Analyzed Method	Ref. Notes							
Tank 4-T (A3C1137-01)Matrix: LiquidBatch: 23D0179	R-04							
2,3,5,6-Tetrachlorophenol ND 357 mg/kg 100 04/05/23 21:17 EPA 827)E							
2,4,5-Trichlorophenol ND 357 mg/kg 100 04/05/23 21:17 EPA 827)E							
2,4,6-Trichlorophenol ND 357 mg/kg 100 04/05/23 21:17 EPA 827)E							
Bis(2-ethylhexyl)phthalate ND 1070 mg/kg 100 04/05/23 21:17 EPA 827)E							
Butyl benzyl phthalate ND 714 mg/kg 100 04/05/23 21:17 EPA 827)E							
Diethylphthalate ND 714 mg/kg 100 04/05/23 21:17 EPA 827)E							
Dimethylphthalate ND 714 mg/kg 100 04/05/23 21:17 EPA 827)E							
Di-n-butylphthalate ND 714 mg/kg 100 04/05/23 21:17 EPA 827)E							
Di-n-octyl phthalate ND 714 mg/kg 100 04/05/23 21:17 EPA 827)E							
N-Nitrosodimethylamine ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
N-Nitroso-di-n-propylamine ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
N-Nitrosodiphenylamine ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
Bis(2-Chloroethoxy) methane ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
Bis(2-Chloroethyl) ether ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
2,2'-Oxybis(1-Chloropropane) ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
Hexachlorobenzene ND 71.4 mg/kg 100 04/05/23 21:17 EPA 827)E							
Hexachlorobutadiene ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
Hexachlorocyclopentadiene ND 357 mg/kg 100 04/05/23 21:17 EPA 827)E							
Hexachloroethane ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
2-Chloronaphthalene ND 71.4 mg/kg 100 04/05/23 21:17 EPA 827)E							
1,2,4-Trichlorobenzene ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
4-Bromophenyl phenyl ether ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
4-Chlorophenyl phenyl ether ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
Aniline ND 357 mg/kg 100 04/05/23 21:17 EPA 827)E							
4-Chloroaniline ND 179 mg/kg 100 04/05/23 21:17 EPA 827)E							
2-Nitroaniline ND 1430 mg/kg 100 04/05/23 21:17 EPA 827)E							
3-Nitroaniline ND 1430 mg/kg 100 04/05/23 21:17 EPA 827)E							
4-Nitroaniline ND 1430 mg/kg 100 04/05/23 21:17 EPA 827)E							
Nitrobenzene ND 714 mg/kg 100 04/05/23 21:17 EPA 827)E							
2,4-Dinitrotoluene ND 714 mg/kg 100 04/05/23 21:17 EPA 827)E							
2,6-Dinitrotoluene ND 714 mg/kg 100 04/05/23 21:17 EPA 827)E							
Benzoic acid ND 8930 mg/kg 100 04/05/23 21:17 EPA 827)E							
Benzyl alcohol ND 357 mg/kg 100 04/05/23 21:17 EPA 827)E							

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project:	Maul Foster Alongi	
6211 N Ensign St	Project Number: 1	189690	<u>Report ID:</u>
Portland, OR 97217	Project Manager: J	Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Tank 4-T (A3C1137-01)				Matrix: Liqui	id	Batch: 2	23D0179	R-04
Isophorone	ND		179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Azobenzene (1,2-DPH)	ND		179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND		1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
3,3'-Dichlorobenzidine	ND		1430	mg/kg	100	04/05/23 21:17	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND		1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,3-Dinitrobenzene	ND		1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,4-Dinitrobenzene	ND		1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
Pyridine	ND		357	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,2-Dichlorobenzene	ND		179	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,3-Dichlorobenzene	ND		179	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,4-Dichlorobenzene	ND		179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recon	very: 79 %	Limits: 37-122 %	100	04/05/23 21:17	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			100 %	44-120 %	100	04/05/23 21:17	EPA 8270E	S-05
Phenol-d6 (Surr)			294 %	33-122 %	100	04/05/23 21:17	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			133 %	54-127 %	100	04/05/23 21:17	EPA 8270E	S-05
2-Fluorophenol (Surr)			56 %	35-120 %	100	04/05/23 21:17	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)			340 %	39-132 %	100	04/05/23 21:17	EPA 8270E	S-05
Tank 2-T (A3C1137-02)				Matrix: Solid		Batch: 2	Batch: 23D0146	
Acenaphthene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Acenaphthylene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Anthracene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benz(a)anthracene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzo(a)pyrene	ND		3.91	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzo(b)fluoranthene	ND		3.91	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzo(k)fluoranthene	ND		3.91	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzo(g,h,i)perylene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Chrysene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Dibenz(a,h)anthracene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Fluoranthene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Fluorene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
1-Methylnaphthalene	ND		5.21	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Methylnaphthalene	ND		5.21	mg/kg	40	04/05/23 17:55	EPA 8270E	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
Sample Detection Reporting Date								
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Tank 2-T (A3C1137-02)				Matrix: So	lid	Batch:	23D0146	R-04
Naphthalene	ND		5.21	mg/kg	40	04/05/23 17:55	EPA 8270E	
Phenanthrene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Pyrene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Carbazole	ND		3.91	mg/kg	40	04/05/23 17:55	EPA 8270E	
Dibenzofuran	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Chlorophenol	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Chloro-3-methylphenol	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4-Dichlorophenol	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4-Dimethylphenol	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4-Dinitrophenol	ND		65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND		65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Methylphenol	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
3+4-Methylphenol(s)	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Nitrophenol	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Nitrophenol	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Pentachlorophenol (PCP)	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Phenol	ND		5.21	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4,5-Trichlorophenol	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4,6-Trichlorophenol	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND		39.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Butyl benzyl phthalate	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Diethylphthalate	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Dimethylphthalate	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Di-n-butylphthalate	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Di-n-octyl phthalate	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
N-Nitrosodimethylamine	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
N-Nitroso-di-n-propylamine	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
N-Nitrosodiphenylamine	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Bis(2-Chloroethyl) ether	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project:	Maul Foster Alongi	
6211 N Ensign St	Project Number:	189690	<u>Report ID:</u>
Portland, OR 97217	Project Manager:	Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Tank 2-T (A3C1137-02)				Matrix: Solic	ł	Batch:	23D0146	R-04
Hexachlorobenzene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Hexachlorobutadiene	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Hexachlorocyclopentadiene	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
Hexachloroethane	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Chloronaphthalene	ND		2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,2,4-Trichlorobenzene	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Bromophenyl phenyl ether	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Chlorophenyl phenyl ether	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Aniline	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Chloroaniline	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Nitroaniline	ND		52.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
3-Nitroaniline	ND		52.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Nitroaniline	ND		52.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Nitrobenzene	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4-Dinitrotoluene	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,6-Dinitrotoluene	ND		26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzoic acid	ND		325	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzyl alcohol	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
Isophorone	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Azobenzene (1,2-DPH)	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND		65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
3,3'-Dichlorobenzidine	ND		52.1	mg/kg	40	04/05/23 17:55	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND		65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,3-Dinitrobenzene	ND		65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,4-Dinitrobenzene	ND		65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Pyridine	ND		13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,2-Dichlorobenzene	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,3-Dichlorobenzene	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,4-Dichlorobenzene	ND		6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recove	ery: 121 %	Limits: 37-122 %	40	04/05/23 17:55	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			94 %	44-120 %	40	04/05/23 17:55	EPA 8270E	S-05
Phenol-d6 (Surr)			1020 %	33-122 %	40	04/05/23 17:55	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			112 %	54-127 %	40 40	04/05/23 17:55	EPA 8270E	S-05
2-Fluorophenol (Surr)			29 %	33-120 %	40	04/05/23 17:55	EPA 82/0E	5-05

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u>	
6211 N Ensign St	
Portland, OR 97217	

Project:Maul Foster AlongiProject Number:189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Tank 2-T (A3C1137-02)				Matrix: Solid	ł	Batch: 2	23D0146	R-04
Surrogate: 2,4,6-Tribromophenol (Surr)		Re	ecovery: %	Limits: 39-132 %	5 40	04/05/23 17:55	EPA 8270E	S-01
Tank 0-T (A3C1137-03)					Matrix: Solid		Batch: 23D0146	
Acenaphthene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Acenaphthylene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Anthracene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benz(a)anthracene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benzo(a)pyrene	ND		11.9	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benzo(b)fluoranthene	ND		11.9	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benzo(k)fluoranthene	ND		11.9	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benzo(g,h,i)perylene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Chrysene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Dibenz(a,h)anthracene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Fluoranthene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Fluorene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
1-Methylnaphthalene	ND		15.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
2-Methylnaphthalene	ND		15.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Naphthalene	ND		15.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Phenanthrene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Pyrene	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Carbazole	ND		11.9	mg/kg	40	04/05/23 19:03	EPA 8270E	
Dibenzofuran	ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
2-Chlorophenol	ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
4-Chloro-3-methylphenol	ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,4-Dichlorophenol	ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,4-Dimethylphenol	ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,4-Dinitrophenol	ND		198	mg/kg	40	04/05/23 19:03	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND		198	mg/kg	40	04/05/23 19:03	EPA 8270E	
2-Methylphenol	ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
3+4-Methylphenol(s)	ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
2-Nitrophenol	ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
4-Nitrophenol	ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
Pentachlorophenol (PCP)	ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project:	Maul Foster Alongi
6211 N Ensign St	Project Number:	189690
Portland, OR 97217	Project Manager:	Jerry Wade

Report ID:
A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
Sample	Detection	Reporting			Date			
Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes	
			Matrix: So	lid	Batch:	23D0146	R-04	
ND		15.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		119	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		7.92	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		158	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		158	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		158	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E		
ND		79.2	mg/kg	40	04/05/23 19:03	EPA 8270E		
	Sem Sample Result ND ND ND ND ND ND ND N	Sample Result Detection Limit ND ND <t< td=""><td>Semivolatile Organic Componentiation Sample Result Detection Limit Reporting Limit ND 15.8 ND 39.4 ND 79.2 ND 79.2 ND 79.2 ND 79.2 ND 79.2 ND 19.8 ND </td><td>Semivolatile Organize Compounds by EPA Sample Result Detection Limit Reporting Limit Units Result Limit Limit Units Setter: Seteen SeteenS</td><td>Semiv-latile Orgsuit Reporting Limit Reporting Units Dilution Sample Result Detection Limit Reporting Units Dilution ND 15.8 mg/kg 40 ND 39.4 mg/kg 40 ND 79.2 mg/kg 40 ND 79.2 mg/kg 40 ND 79.2 mg/kg 40 ND 79.2 mg/kg 40 ND 19.8 mg/kg 40 ND 19.8 mg/kg 40 ND 19.8 mg/kg 40</td><td>Semivolatile Organic Compounds by EPA 9270E Sample Result Detection Limit Reporting Limit Units Date Dilution Date Analyzed ND 15.8 mg/kg 40 04/05/23 19:03 ND 39.4 mg/kg 40 04/05/23 19:03 ND 79.2 mg/kg 40 04/05/23 19:03 ND 79.2 mg/kg 40 04/05/23 19:03 ND 79.2 mg/kg 40 04/05/23 19:03 ND 19.8 mg/kg 40 04/05/23 19:03 ND 19.8 mg/kg 40 04/05/23 19:03</td><td>Semivolatile Organic Compounds by EPA 8270E Sample Result Detection Limit Reporting Limit Date Units Date Dilution Analyzed Analyzed Method Ref. ND 15.8 mg/kg 40 04/05/23 19:03 EPA 8270E ND 39.4 mg/kg 40 04/05/23 19:03 EPA 8270E ND 79.2 mg/kg 40 04/05/23 19:03 EPA 8270E ND </td></t<>	Semivolatile Organic Componentiation Sample Result Detection Limit Reporting Limit ND 15.8 ND 39.4 ND 79.2 ND 79.2 ND 79.2 ND 79.2 ND 79.2 ND 19.8 ND	Semivolatile Organize Compounds by EPA Sample Result Detection Limit Reporting Limit Units Result Limit Limit Units Setter: Seteen SeteenS	Semiv-latile Orgsuit Reporting Limit Reporting Units Dilution Sample Result Detection Limit Reporting Units Dilution ND 15.8 mg/kg 40 ND 39.4 mg/kg 40 ND 79.2 mg/kg 40 ND 79.2 mg/kg 40 ND 79.2 mg/kg 40 ND 79.2 mg/kg 40 ND 19.8 mg/kg 40 ND 19.8 mg/kg 40 ND 19.8 mg/kg 40	Semivolatile Organic Compounds by EPA 9270E Sample Result Detection Limit Reporting Limit Units Date Dilution Date Analyzed ND 15.8 mg/kg 40 04/05/23 19:03 ND 39.4 mg/kg 40 04/05/23 19:03 ND 79.2 mg/kg 40 04/05/23 19:03 ND 79.2 mg/kg 40 04/05/23 19:03 ND 79.2 mg/kg 40 04/05/23 19:03 ND 19.8 mg/kg 40 04/05/23 19:03 ND 19.8 mg/kg 40 04/05/23 19:03	Semivolatile Organic Compounds by EPA 8270E Sample Result Detection Limit Reporting Limit Date Units Date Dilution Analyzed Analyzed Method Ref. ND 15.8 mg/kg 40 04/05/23 19:03 EPA 8270E ND 39.4 mg/kg 40 04/05/23 19:03 EPA 8270E ND 79.2 mg/kg 40 04/05/23 19:03 EPA 8270E ND	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

ſ	NRC	Project: <u>M</u>	aul Foster Alongi	
l	6211 N Ensign St	Project Number: 18	9690	<u>Report ID:</u>
l	Portland, OR 97217	Project Manager: Je	erry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E								
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Tank 0-T (A3C1137-03)				Matrix: Solid	1	Batch:	23D0146	R-04
Benzoic acid	ND		987	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benzyl alcohol	ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
Isophorone	ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Azobenzene (1,2-DPH)	ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND		198	mg/kg	40	04/05/23 19:03	EPA 8270E	
3,3'-Dichlorobenzidine	ND		158	mg/kg	40	04/05/23 19:03	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND		198	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,3-Dinitrobenzene	ND		198	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,4-Dinitrobenzene	ND		198	mg/kg	40	04/05/23 19:03	EPA 8270E	
Pyridine	ND		39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,2-Dichlorobenzene	ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,3-Dichlorobenzene	ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,4-Dichlorobenzene	ND		19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recove	ery: 152 %	Limits: 37-122 %	40	04/05/23 19:03	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			94 %	44-120 %	40	04/05/23 19:03	EPA 8270E	S-05
Phenol-d6 (Surr)			1040 %	33-122 %	40	04/05/23 19:03	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			118 %	54-127 %	40	04/05/23 19:03	EPA 8270E	S-05
2-Fluorophenol (Surr)			72 %	35-120 %	40	04/05/23 19:03	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)			%	39-132 %	40	04/05/23 19:03	EPA 8270E	S-01

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	<u>Report ID:</u>
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)												
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes				
Tank 4-T (A3C1137-01)			Matrix: Liqu		uid							
Batch: 23D0013												
Arsenic	ND		2.43	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04				
Barium	ND		2.43	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04				
Cadmium	ND		0.485	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04				
Chromium	ND		2.43	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04				
Lead	ND		0.485	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04				
Mercury	ND		0.194	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04				
Selenium	ND		2.43	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04				
Silver	ND		0.485	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04				
Tank 0-T (A3C1137-03)				Matrix: Sol	id							
Batch: 23D0210												
Arsenic	ND		1.10	mg/kg	10	04/07/23 14:55	EPA 6020B					
Cadmium	1.48		0.220	mg/kg	10	04/07/23 14:55	EPA 6020B	Q-42				
Chromium	3.64		1.10	mg/kg	10	04/07/23 14:55	EPA 6020B					
Lead	6.66		0.220	mg/kg	10	04/07/23 14:55	EPA 6020B					
Mercury	0.149		0.0879	mg/kg	10	04/07/23 14:55	EPA 6020B					
Selenium	ND		1.10	mg/kg	10	04/07/23 14:55	EPA 6020B					
Silver	ND		0.220	mg/kg	10	04/07/23 14:55	EPA 6020B					
Tank 0-T (A3C1137-03RE1)				Matrix: Sol	id							
Batch: 23D0210												
Barium	726		11.0	mg/kg	100	04/07/23 15:25	EPA 6020B					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project: <u>Mau</u>	ul Foster Alongi	
6211 N Ensign St	Project Number: 1896	0690	Report ID:
Portland, OR 97217	Project Manager: Jerr	ry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

	TCLP Metals by EPA 6020B (ICPMS)											
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes				
Tank 2-T (A3C1137-02)				Matrix: Sol	lid							
Batch: 23D0208												
Arsenic	ND		0.100	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa				
Barium	ND		5.00	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa				
Cadmium	ND		0.100	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa				
Chromium	ND		0.100	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa				
Lead	ND		0.0500	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa				
Mercury	ND		0.00700	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa				
Selenium	ND		0.100	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa				
Silver	ND		0.100	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa				
				Matrix: Sol	lid							
Batch: 23D0209												
Arsenic	ND		0.100	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa				
Barium	ND		5.00	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa				
Cadmium	ND		0.100	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa				
Chromium	ND		0.100	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa				
Lead	ND		0.0500	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa				
Mercury	ND		0.00700	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa				
Selenium	ND		0.100	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa				
Silver	ND		0.100	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa				

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217		Proj Project Project	A	<u>Report ID:</u> A3C1137 - 04 20 23 1304								
		ANALYTI	CAL SAMPI	LE RESULT	S							
	TCLP Extraction by EPA 1311											
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes				
Tank 2-T (A3C1137-02)				Matrix: So	olid	Batch:	23D0150					
TCLP Extraction	PREP			N/A	1	04/05/23 14:10	EPA 1311					
Tank 0-T (A3C1137-03)				Matrix: So	olid	Batch:	23D0162					
TCLP Extraction	PREP			N/A	1	04/05/23 14:10	EPA 1311					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Hyd	rocarbon l	dentificat	ion Scree	en by NW	TPH-HCI	D				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0071 - NWTPH-HCIE) (Soil)						Liq	uid				
Blank (23D0071-BLK1)			Preparec	l: 04/03/23	16:52 Ana	lyzed: 04/04	/23 14:07					
NWTPH-HCID												
Gasoline Range Organics	ND		200	mg/kg	1							
Diesel Range Organics	ND		500	mg/kg	1							
Oil Range Organics	ND		1000	mg/kg	1							
Surr: o-Terphenyl (Surr)		Rec	overy: 96 %	Limits: 50	-150 %	Dilt	ution: 1x					
4-Bromofluorobenzene (Surr)			95 %	50	-150 %		"					
Duplicate (23D0071-DUP1)			Preparec	l: 04/03/23	16:52 Ana	lyzed: 04/04	/23 14:55					
QC Source Sample: Tank 4-T (A3	C1137-01)											
NWTPH-HCID												
Gasoline Range Organics	ND		37700	mg/kg	100		ND				30%	
Diesel Range Organics	DET		94300	mg/kg	100		ND				30%	F-1
Oil Range Organics	ND		189000	mg/kg	100		ND				30%	
Surr: o-Terphenyl (Surr)		R	ecovery: %	Limits: 50	-150 %	Dilt	ution: 100x					S-01
4-Bromofluorobenzene (Surr)			%	50	-150 %		"					S-01

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlor	inated Bi	phenyls	by EPA 80)82A					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0145 - EPA 3546							So	lid				
Blank (23D0145-BLK1)			Prepared	1: 04/05/23 (09:49 Ana	lyzed: 04/06/	/23 08:53					C-07
EPA 8082A												
Aroclor 1016	ND		0.0500	mg/kg	1							
Aroclor 1221	ND		0.0500	mg/kg	1							
Aroclor 1232	ND		0.0500	mg/kg	1							
Aroclor 1242	ND		0.0500	mg/kg	1							
Aroclor 1248	ND		0.0500	mg/kg	1							
Aroclor 1254	ND		0.0500	mg/kg	1							
Aroclor 1260	ND		0.0500	mg/kg	1							
Surr: Decachlorobiphenyl (Surr)		Recov	very: 103 %	Limits: 60	-125 %	Dilı	ution: 1x					
LCS (23D0145-BS1)			Prepared	l: 04/05/23 ()9:49 Ana	lyzed: 04/06/	/23 09:10					C-07
<u>EPA 8082A</u>												
Aroclor 1016	0.891		0.0500	mg/kg	1	1.25		71	47-134%			
Aroclor 1260	1.17		0.0500	mg/kg	1	1.25		94	53-140%			
Surr: Decachlorobiphenyl (Surr)		Recov	very: 105 %	Limits: 60	-125 %	Dilı	ution: 1x					
Duplicate (23D0145-DUP1)			Prepared	l: 04/05/23 ()9:49 Ana	lyzed: 04/06/	/23 10:21					C-07
QC Source Sample: Non-SDG (A3	3C0962-01)											
Aroclor 1016	ND		0.246	mg/kg	2		ND				30%	R-0
Aroclor 1221	ND		0.0985	mg/kg	2		ND				30%	
Aroclor 1232	ND		0.420	mg/kg	2		ND				30%	R-0
Aroclor 1242	ND		0.453	mg/kg	2		ND				30%	R-0
Aroclor 1248	ND		0.242	mg/kg	2		ND				30%	R-0
Aroclor 1254	ND		0.0985	mg/kg	2		ND				30%	
Aroclor 1260	ND		0.0985	mg/kg	2		ND				30%	
Surr: Decachlorobiphenyl (Surr)		Reco	overy: 68 %	Limits: 60	-125 %	Dilı	ution: 2x					
Matrix Spike (23D0145-MS1)			Prepared	1: 04/05/23 ()9:49 Ana	lyzed: 04/06/	/23 12:25					C-07
QC Source Sample: Tank 0-T (A3	8C1137-03)		I									
<u>EPA 8082A</u>												
Aroclor 1016	0.541		0.0939	mg/kg	2	1.17	ND	46	47-134%			Q-(
Aroclor 1260	0.658		0.0939	mg/kg	2	1.17	ND	56	53-140%			
Surr: Decachlorobiphenyl (Surr)		Reco	overy: 62 %	Limits: 60	-125 %	Dilı	ution: 2x					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC
6211 N Ensign St
Portland, OR 97217

Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade



QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0145 - EPA 3546							Soli	d				

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Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte Detection Limit Reporting Limit Spike Units Spike Amount Source Result % REC % REC Batch 23D0198 - EPA 3546 EPA 3546 Epa 8040 (000000000000000000000000000000000	RPD Limit Notes	RPI RPD Lim	EC nits RPD	% REC % REC Limits		Source	~ !!						
Batch 23D0198 - EPA 3546 Liquid Blank (23D0198-BLK1) Prepared: 04/06/23 09:43 Analyzed: 04/07/23 08:19 EPA 8082A EPA 8082A	C-0				%1	Result	Spike Amount	Dilution	Units	Reporting Limit	Detection Limit	Result	Analyte
Blank (23D0198-BLK1) Prepared: 04/06/23 09:43 Analyzed: 04/07/23 08:19 EPA 8082A 0.00000000000000000000000000000000000	 				quid	Liq							Batch 23D0198 - EPA 3546
EPA 8082A	 					7/23 08:19	lyzed: 04/0	9:43 Ana	: 04/06/23 0	Prepared			Blank (23D0198-BLK1)
													EPA 8082A
Aroclor 1016 ND 0.0500 mg/kg 1								1	mg/kg	0.0500		ND	Aroclor 1016
Aroclor 1221 ND 0.0500 mg/kg 1								1	mg/kg	0.0500		ND	Aroclor 1221
Aroclor 1232 ND 0.0500 mg/kg 1								1	mg/kg	0.0500		ND	Aroclor 1232
Aroclor 1242 ND 0.0500 mg/kg 1								1	mg/kg	0.0500		ND	Aroclor 1242
Aroclor 1248 ND 0.0500 mg/kg 1								1	mg/kg	0.0500		ND	Aroclor 1248
Aroclor 1254 ND 0.0500 mg/kg 1								1	mg/kg	0.0500		ND	Aroclor 1254
Aroclor 1260 ND 0.0500 mg/kg 1								1	mg/kg	0.0500		ND	Aroclor 1260
Surr: Decachlorobiphenyl (Surr) Recovery: 94 % Limits: 60-125 % Dilution: 1x						lution: 1x	Di	125 %	Limits: 60-	overy: 94 %	Reco		Surr: Decachlorobiphenyl (Surr)
LCS (23D0198-BS1) Prepared: 04/06/23 09:43 Analyzed: 04/07/23 08:37	C-(7/23 08:37	lyzed: 04/0	9:43 Ana	: 04/06/23 0	Prepared			LCS (23D0198-BS1)
<u>EPA 8082A</u>													EPA 8082A
Aroclor 1016 0.891 0.0500 mg/kg 1 1.25 71 47-134%			4%	47-134%	71		1.25	1	mg/kg	0.0500		0.891	Aroclor 1016
Aroclor 1260 1.11 0.0500 mg/kg 1 1.25 89 53-140%				53-140%	89		1.25	1	mg/kg	0.0500		1.11	Aroclor 1260
Surr: Decachlorobiphenyl (Surr) Recovery: 98 % Limits: 60-125 % Dilution: 1x						lution: 1x	Di	125 %	Limits: 60-	overy: 98 %	Reco		Surr: Decachlorobiphenyl (Surr)
Duplicate (23D0198-DUP1) Prepared: 04/06/23 09:43 Analyzed: 04/07/23 09:30	C-0					7/23 09:30	lyzed: 04/0	9:43 Ana	: 04/06/23 0	Prepared			Duplicate (23D0198-DUP1)
OC Source Sample: Tank 4-T (A3C1137-01)												3C1137-01)	OC Source Sample: Tank 4-T (A3
<u>EPA 8082A</u>													EPA 8082A
Aroclor 1016 ND 1.00 mg/kg 1 ND	30%	309				ND		1	mg/kg	1.00		ND	Aroclor 1016
Aroclor 1221 ND 1.00 mg/kg 1 ND	30%	309				ND		1	mg/kg	1.00		ND	Aroclor 1221
Aroclor 1232 ND 1.00 mg/kg 1 ND	30%	309				ND		1	mg/kg	1.00		ND	Aroclor 1232
Aroclor 1242 ND 1.00 mg/kg 1 ND	30%	309				ND		1	mg/kg	1.00		ND	Aroclor 1242
Aroclor 1248 ND 1.00 mg/kg 1 ND	30%	30%				ND		1	mg/kg	1.00		ND	Aroclor 1248
Aroclor 1254 ND 1.00 mg/kg 1 ND	30%	309				ND		1	mg/kg	1.00		ND	Aroclor 1254
Aroclor 1260 ND 1.00 mg/kg 1 ND	30%	30%				ND		1	mg/kg	1.00		ND	Aroclor 1260
Surr: Decachlorobiphenyl (Surr) Recovery: 96 % Limits: 60-125 % Dilution: 1x						lution: 1x	Di	125 %	Limits: 60-	overy: 96%	Reco		Surr: Decachlorobiphenyl (Surr)
Matrix Spike (23D0198-MS1) Prepared: 04/06/23 09:43 Analyzed: 04/07/23 10:06	C-(7/23 10:06	lyzed: 04/0	9:43 Ana	: 04/06/23 0	Prepared			Matrix Spike (23D0198-MS1)
OC Source Sample: Tank 4-T (A3C1137-01) EPA 8082A							-					<u>3C1137-01)</u>	OC Source Sample: Tank 4-T (A3 EPA 8082A
Aroclor 1016 12.7 0.625 mg/kg 1 15.6 ND 81 47-134%			4%	47-134%	81	ND	15.6	1	mg/kg	0.625		12.7	Aroclor 1016
Aroclor 1260 13.7 0.625 mg/kg 1 15.6 ND 88 53-140%				53-140%	88	ND	15.6	1	mg/kg	0.625		13.7	Aroclor 1260

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlor	inated B	nated Biphenyls by EPA 8082A								
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23D0198 - EPA 3546							Liqu	ıid					
Matrix Spike (23D0198-MS1)			Prepared	: 04/06/23	09:43 Anal	yzed: 04/07/	/23 10:06					C-07	
QC Source Sample: Tank 4-T (A3)	<u>C1137-01)</u>												
Surr: Decachlorobiphenyl (Surr)		Reco	wery: 99%	Limits: 6	0-125 %	Dilu	ution: 1x						

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Semivolatile Organic Compounds by EPA 8270E										
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							Sol	id				
Blank (23D0146-BLK1)			Prepared:	: 04/05/23 (09:55 Anal	lyzed: 04/05	/23 16:47					
EPA 8270E												
Acenaphthene	ND		0.00267	mg/kg	1							
Acenaphthylene	ND		0.00267	mg/kg	1							
Anthracene	ND		0.00267	mg/kg	1							
Benz(a)anthracene	ND		0.00267	mg/kg	1							
Benzo(a)pyrene	ND		0.00400	mg/kg	1							B-0
Benzo(b)fluoranthene	ND		0.00400	mg/kg	1							B-0
Benzo(k)fluoranthene	ND		0.00400	mg/kg	1							
Benzo(g,h,i)perylene	ND		0.00267	mg/kg	1							
Chrysene	ND		0.00267	mg/kg	1							
Dibenz(a,h)anthracene	ND		0.00267	mg/kg	1							
Fluoranthene	ND		0.00267	mg/kg	1							
Fluorene	ND		0.00267	mg/kg	1							
Indeno(1,2,3-cd)pyrene	ND		0.00267	mg/kg	1							
1-Methylnaphthalene	ND		0.00533	mg/kg	1							
2-Methylnaphthalene	ND		0.00533	mg/kg	1							
Naphthalene	ND		0.00533	mg/kg	1							
Phenanthrene	ND		0.00267	mg/kg	1							
Pyrene	ND		0.00267	mg/kg	1							
Carbazole	ND		0.00400	mg/kg	1							
Dibenzofuran	ND		0.00267	mg/kg	1							
2-Chlorophenol	ND		0.0133	mg/kg	1							
4-Chloro-3-methylphenol	ND		0.0267	mg/kg	1							
2,4-Dichlorophenol	ND		0.0133	mg/kg	1							
2,4-Dimethylphenol	ND		0.0133	mg/kg	1							
2.4-Dinitrophenol	ND		0.0667	mg/kg	1							
4.6-Dinitro-2-methylphenol	ND		0.0667	mg/kg	1							
2-Methylphenol	ND		0.00667	mg/kg	1							
3+4-Methylphenol(s)	ND		0.00667	mø/ko	1							
2-Nitrophenol	ND		0.0267	mø/ko	1							
4-Nitrophenol	ND		0.0267	mg/bg	1							
Pentachlorophenol (PCP)	ND		0.0267	mg/kg	1							
Phenol			0.0207	mg/kg	1							
2246 Tatraahlananhanal			0.00555	m~/l	1							
2,3,4,0-1etracniorophenol	ND		0.0155	mg/kg	1							

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile (Organic (Compoun	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							Sol	id				
Blank (23D0146-BLK1)			Prepared	: 04/05/23 (09:55 Anal	yzed: 04/05	/23 16:47					
2,3,5,6-Tetrachlorophenol	ND		0.0133	mg/kg	1							
2,4,5-Trichlorophenol	ND		0.0133	mg/kg	1							
2,4,6-Trichlorophenol	ND		0.0133	mg/kg	1							
Bis(2-ethylhexyl)phthalate	ND		0.0400	mg/kg	1							
Butyl benzyl phthalate	ND		0.0267	mg/kg	1							
Diethylphthalate	ND		0.0267	mg/kg	1							
Dimethylphthalate	ND		0.0267	mg/kg	1							
Di-n-butylphthalate	0.195		0.0267	mg/kg	1							
Di-n-octyl phthalate	ND		0.0267	mg/kg	1							
N-Nitrosodimethylamine	ND		0.00667	mg/kg	1							
N-Nitroso-di-n-propylamine	ND		0.00667	mg/kg	1							
N-Nitrosodiphenylamine	ND		0.00667	mg/kg	1							
Bis(2-Chloroethoxy) methane	ND		0.00667	mg/kg	1							
Bis(2-Chloroethyl) ether	ND		0.00667	mg/kg	1							
2,2'-Oxybis(1-Chloropropane)	ND		0.00667	mg/kg	1							
Hexachlorobenzene	ND		0.00267	mg/kg	1							
Hexachlorobutadiene	ND		0.00667	mg/kg	1							
Hexachlorocyclopentadiene	ND		0.0133	mg/kg	1							
Hexachloroethane	ND		0.00667	mg/kg	1							
2-Chloronaphthalene	ND		0.00267	mg/kg	1							
1,2,4-Trichlorobenzene	ND		0.00667	mg/kg	1							
4-Bromophenyl phenyl ether	ND		0.00667	mg/kg	1							
4-Chlorophenyl phenyl ether	ND		0.00667	mg/kg	1							
Aniline	ND		0.0133	mg/kg	1							
4-Chloroaniline	ND		0.00667	mg/kg	1							
2-Nitroaniline	ND		0.0533	mg/kg	1							
3-Nitroaniline	ND		0.0533	mg/kg	1							
4-Nitroaniline	ND		0.0533	mg/kg	1							
Nitrobenzene	ND		0.0267	mg/kg	1							
2,4-Dinitrotoluene	ND		0.0267	mg/kg	1							
2,6-Dinitrotoluene	ND		0.0267	mg/kg	1							
Benzoic acid	ND		0.333	mg/kg	1							
Benzyl alcohol	ND		0.0133	mg/kg	1							
Isophorone	ND		0.00667	mg/kg	1							
1				00								

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

В



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile (Organic (Compour	ids by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							So	lid				
Blank (23D0146-BLK1)			Prepared	: 04/05/23 ()9:55 Ana	lyzed: 04/05	/23 16:47					
Azobenzene (1,2-DPH)	ND		0.00667	mg/kg	1							
Bis(2-Ethylhexyl) adipate	ND		0.0667	mg/kg	1							
3,3'-Dichlorobenzidine	ND		0.0533	mg/kg	1							Q-:
1,2-Dinitrobenzene	ND		0.0667	mg/kg	1							
1,3-Dinitrobenzene	ND		0.0667	mg/kg	1							
1,4-Dinitrobenzene	ND		0.0667	mg/kg	1							
Pyridine	ND		0.0133	mg/kg	1							
1,2-Dichlorobenzene	ND		0.00667	mg/kg	1							
1,3-Dichlorobenzene	ND		0.00667	mg/kg	1							
1,4-Dichlorobenzene	ND		0.00667	mg/kg	1							
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 99%	Limits: 37	-122 %	Dilı	ution: 1x					
2-Fluorobiphenyl (Surr)			88 %	44	-120 %		"					
Phenol-d6 (Surr)			85 %	33-	-122 %		"					
p-Terphenyl-d14 (Surr)			94 %	54	-127 %		"					
2-Fluorophenol (Surr)			84 %	35-	-120 %		"					
2,4,6-Tribromophenol (Surr)			86 %	39	-132 %		"					
LCS (23D0146-BS1)			Prepared	: 04/05/23 ()9:55 Ana	lyzed: 04/05	/23 17:21					Q-18
EPA 8270E												
Acenaphthene	0.526		0.0107	mg/kg	4	0.533		99	40-123%			
Acenaphthylene	0.502		0.0107	mg/kg	4	0.533		94	32-132%			
Anthracene	0.541		0.0107	mg/kg	4	0.533		101	47-123%			
Benz(a)anthracene	0.540		0.0107	mg/kg	4	0.533		101	49-126%			
Benzo(a)pyrene	0.514		0.0160	mg/kg	4	0.533		96	45-129%			В-0
Benzo(b)fluoranthene	0.509		0.0160	mg/kg	4	0.533		95	45-132%			В-0
Benzo(k)fluoranthene	0.514		0.0160	mg/kg	4	0.533		96	47-132%			
Benzo(g,h,i)perylene	0.547		0.0107	mg/kg	4	0.533		103	43-134%			
Chrysene	0.535		0.0107	mg/kg	4	0.533		100	50-124%			
Dibenz(a,h)anthracene	0.542		0.0107	mg/kg	4	0.533		102	45-134%			
Fluoranthene	0.569		0.0107	mg/kg	4	0.533		107	50-127%			
Fluorene	0.505		0.0107	mg/kg	4	0.533		95	43-125%			
Indeno(1,2,3-cd)pyrene	0.502		0.0107	mg/kg	4	0.533		94	45-133%			
1-Methylnaphthalene	0.531		0.0213	mg/kg	4	0.533		100	40-120%			
2-Methylnaphthalene	0.578		0.0213	mg/kg	4	0.533		108	38-122%			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile (Organic (Compoun	ids by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							So	lid				
LCS (23D0146-BS1)			Prepared	: 04/05/23 ()9:55 Anal	lyzed: 04/05	/23 17:21					Q-18
Naphthalene	0.523		0.0213	mg/kg	4	0.533		98	35-123%	,		
Phenanthrene	0.510		0.0107	mg/kg	4	0.533		96	50-121%	,		
Pyrene	0.568		0.0107	mg/kg	4	0.533		106	47-127%	,		
Carbazole	0.589		0.0160	mg/kg	4	0.533		110	50-123%	,		
Dibenzofuran	0.533		0.0107	mg/kg	4	0.533		100	44-120%	,		
2-Chlorophenol	0.580		0.0532	mg/kg	4	0.533		109	34-121%	,		
4-Chloro-3-methylphenol	0.609		0.107	mg/kg	4	0.533		114	45-122%	,		
2,4-Dichlorophenol	0.622		0.0532	mg/kg	4	0.533		117	40-122%	,		
2,4-Dimethylphenol	0.666		0.0532	mg/kg	4	0.533		125	30-127%	,		
2,4-Dinitrophenol	0.617		0.267	mg/kg	4	0.533		116	10-137%	,		
4,6-Dinitro-2-methylphenol	0.577		0.267	mg/kg	4	0.533		108	29-132%	,		
2-Methylphenol	0.641		0.0267	mg/kg	4	0.533		120	32-122%	,		Q-4
3+4-Methylphenol(s)	0.637		0.0267	mg/kg	4	0.533		119	34-120%	,		
2-Nitrophenol	0.730		0.107	mg/kg	4	0.533		137	36-123%	,		Q-29, Q-
4-Nitrophenol	0.616		0.107	mg/kg	4	0.533		116	30-132%	,		
Pentachlorophenol (PCP)	0.507		0.107	mg/kg	4	0.533		95	25-133%	,		
Phenol	0.596		0.0213	mg/kg	4	0.533		112	34-121%	,		
2,3,4,6-Tetrachlorophenol	0.543		0.0532	mg/kg	4	0.533		102	44-125%	,		
2,3,5,6-Tetrachlorophenol	0.562		0.0532	mg/kg	4	0.533		105	40-120%	,		
2,4,5-Trichlorophenol	0.560		0.0532	mg/kg	4	0.533		105	41-124%	,		
2,4,6-Trichlorophenol	0.547		0.0532	mg/kg	4	0.533		103	39-126%	,		
Bis(2-ethylhexyl)phthalate	0.535		0.160	mg/kg	4	0.533		100	51-133%	,		
Butyl benzyl phthalate	0.584		0.107	mg/kg	4	0.533		109	48-132%	,		
Diethylphthalate	0.507		0.107	mg/kg	4	0.533		95	50-124%	,		
Dimethylphthalate	0.525		0.107	mg/kg	4	0.533		98	48-124%	,		
Di-n-butylphthalate	0.851		0.107	mg/kg	4	0.533		159	51-128%	,		Q-29,
Di-n-octyl phthalate	0.515		0.107	mg/kg	4	0.533		97	45-140%	,		
N-Nitrosodimethylamine	0.504		0.0267	mg/kg	4	0.533		95	23-120%	,		
N-Nitroso-di-n-propylamine	0.555		0.0267	mg/kg	4	0.533		104	36-120%	,		
N-Nitrosodiphenylamine	0.528		0.0267	mg/kg	4	0.533		99	38-127%	,		
Bis(2-Chloroethoxy) methane	0.607		0.0267	mg/kg	4	0.533		114	36-121%	,		
Bis(2-Chloroethyl) ether	0.476		0.0267	mg/kg	4	0.533		89	31-120%	,		
2,2'-Oxybis(1-Chloropropage)	0.473		0.0267	mø/ko	4	0.533		89	39-120%	,		
Hexachlorobenzene	0.493		0.0107	mg/kg	4	0.533		92	45-122%	,		

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							Sol	lid				
LCS (23D0146-BS1)			Prepared	: 04/05/23 ()9:55 Anal	yzed: 04/05	/23 17:21					Q-18
Hexachlorobutadiene	0.478		0.0267	mg/kg	4	0.533		90	32-123%			
Hexachlorocyclopentadiene	0.698		0.0532	mg/kg	4	0.533		131	10-140%			Q-4
Hexachloroethane	0.490		0.0267	mg/kg	4	0.533		92	28-120%			
2-Chloronaphthalene	0.573		0.0107	mg/kg	4	0.533		107	41-120%			
1,2,4-Trichlorobenzene	0.514		0.0267	mg/kg	4	0.533		96	34-120%			
4-Bromophenyl phenyl ether	0.548		0.0267	mg/kg	4	0.533		103	46-124%			
4-Chlorophenyl phenyl ether	0.550		0.0267	mg/kg	4	0.533		103	45-121%			
Aniline	0.305		0.0532	mg/kg	4	0.533		57	10-120%			
4-Chloroaniline	0.268		0.0267	mg/kg	4	0.533		50	17-120%			
2-Nitroaniline	0.557		0.213	mg/kg	4	0.533		104	44-127%			
3-Nitroaniline	0.384		0.213	mg/kg	4	0.533		72	33-120%			
4-Nitroaniline	0.645		0.213	mg/kg	4	0.533		121	51-125%			
Nitrobenzene	0.604		0.107	mg/kg	4	0.533		113	34-122%			
2,4-Dinitrotoluene	0.541		0.107	mg/kg	4	0.533		101	48-126%			
2,6-Dinitrotoluene	0.552		0.107	mg/kg	4	0.533		104	46-124%			
Benzoic acid	1.03		0.668	mg/kg	4	1.07		96	10-140%			
Benzyl alcohol	0.618		0.0532	mg/kg	4	0.533		116	29-122%			
lsophorone	0.530		0.0267	mg/kg	4	0.533		99	30-122%			
Azobenzene (1,2-DPH)	0.524		0.0267	mg/kg	4	0.533		98	39-125%			
Bis(2-Ethylhexyl) adipate	0.564		0.267	mg/kg	4	0.533		106	61-121%			
3,3'-Dichlorobenzidine	1.34		0.213	mg/kg	4	1.07		126	22-121%			Q-29, Q-31 Q-5
1,2-Dinitrobenzene	0.549		0.267	mg/kg	4	0.533		103	44-120%			
1,3-Dinitrobenzene	0.574		0.267	mg/kg	4	0.533		108	43-127%			
1,4-Dinitrobenzene	0.580		0.267	mg/kg	4	0.533		109	37-132%			
Pyridine	0.390		0.0532	mg/kg	4	0.533		73	10-120%			
1,2-Dichlorobenzene	0.498		0.0267	mg/kg	4	0.533		93	33-120%			
1,3-Dichlorobenzene	0.489		0.0267	mg/kg	4	0.533		92	30-120%			
l,4-Dichlorobenzene	0.494		0.0267	mg/kg	4	0.533		93	31-120%			
Surr: Nitrobenzene-d5 (Surr)		Recove	ry: 109 %	Limits: 37	-122 %	Dilu	tion: 4x					
2-Fluorobiphenyl (Surr)			102 %	44-	-120 %		"					
Phenol-d6 (Surr)			111 %	33	-122 %		"					
p-Terphenvl-d14 (Surr)			107 %	54.	127 %		"					
2-Fluorophenol (Surr)			04 %	25	120 %		"					
			27 70	55	122.07							

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

										onder		
<u>NRC</u> 6211 N Ensign St Portland, OR 97217			Pro	Project: ject Numbe ject Manage	<u>Maul Fo</u> er: 189690 er: Jerry W	oster Alongi ′ade			A	<u>F</u> 3C1137	<u>Report ID:</u> - 04 20 23	<u>-</u> 3 1304
		QU	ALITY CO	ONTROL	(QC) SA	MPLE R	ESULTS	5				
		Se	mivolatile	Organic (Compoun	ds by EP/	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							Sol	id				
Duplicate (23D0146-DUP1)			Prepared	: 04/05/23 ()9:55 Anal	yzed: 04/05/	/23 18:29					R-04
QC Source Sample: Tank 2-T (A	3C1137-02)											
EPA 8270E												
Acenaphthene	ND		2.67	mg/kg	40		ND				30%	
Acenaphthylene	ND		2.67	mg/kg	40		ND				30%	
Anthracene	ND		2.67	mg/kg	40		ND				30%	
Benz(a)anthracene	ND		2.67	mg/kg	40		ND				30%	
Benzo(a)pyrene	ND		3.99	mg/kg	40		ND				30%	
Benzo(b)fluoranthene	ND		3.99	mg/kg	40		ND				30%	
Benzo(k)fluoranthene	ND		3.99	mg/kg	40		ND				30%	
Benzo(g,h,i)perylene	ND		2.67	mg/kg	40		ND				30%	
Chrysene	ND		2.67	mg/kg	40		ND				30%	
Dibenz(a,h)anthracene	ND		2.67	mg/kg	40		ND				30%	
Fluoranthene	ND		2.67	mg/kg	40		ND				30%	
Fluorene	ND		2.67	mg/kg	40		ND				30%	
Indeno(1,2,3-cd)pyrene	ND		2.67	mg/kg	40		ND				30%	
1-Methylnaphthalene	ND		5.32	mg/kg	40		ND				30%	
2-Methylnaphthalene	ND		5.32	mg/kg	40		ND				30%	
Naphthalene	ND		5.32	mg/kg	40		ND				30%	
Phenanthrene	ND		2.67	mg/kg	40		ND				30%	
Pyrene	ND		2.67	mg/kg	40		ND				30%	
Carbazole	ND		3.99	mg/kg	40		ND				30%	
Dibenzofuran	ND		2.67	mg/kg	40		ND				30%	
2-Chlorophenol	ND		13.3	mg/kg	40		ND				30%	
4-Chloro-3-methylphenol	ND		26.7	mg/kg	40		ND				30%	
2,4-Dichlorophenol	ND		13.3	mg/kg	40		ND				30%	
2,4-Dimethylphenol	ND		13.3	mg/kg	40		ND				30%	
2,4-Dinitrophenol	ND		66.6	mg/kg	40		ND				30%	
4,6-Dinitro-2-methylphenol	ND		66.6	mg/kg	40		ND				30%	
2-Methylphenol	ND		6.66	mg/kg	40		ND				30%	
3+4-Methylphenol(s)	ND		6.66	mg/kg	40		ND				30%	
2-Nitrophenol	ND		26.7	mg/kg	40		ND				30%	
4-Nitrophenol	ND		26.7	mg/kg	40		ND				30%	
Pentachlorophenol (PCP)	ND		26.7	mg/kg	40		ND				30%	

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic (AnalyteResultDetection LimitReporting LimitUnitsBatch 23D0146 - EPA 3546Duplicate (23D0146-DUP1)Prepared: 04/05/23 (OC Source Sample: Tank 2-T (A3C1137-02)PhenolNDPhenolND5.32mg/kg2,3,4,6-TetrachlorophenolND13.3mg/kg2,4,5-TrichlorophenolND13.3mg/kg2,4,6-TrichlorophenolND13.3mg/kgBis(2-ethylhexyl)phthalateND39.9mg/kgButyl benzyl phthalateND26.7mg/kgDientylphthalateND26.7mg/kgDimethylphthalateND26.7mg/kg			Compour	nds by EP	A 8270E							
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							Sol	id				
Duplicate (23D0146-DUP1)			Prepared	: 04/05/23 (09:55 Ana	lyzed: 04/05	/23 18:29					R-04
QC Source Sample: Tank 2-T (A	<u>3C1137-02)</u>											
Phenol	ND		5.32	mg/kg	40		ND				30%	
2,3,4,6-Tetrachlorophenol	ND		13.3	mg/kg	40		ND				30%	
2,3,5,6-Tetrachlorophenol	ND		13.3	mg/kg	40		ND				30%	
2,4,5-Trichlorophenol	ND		13.3	mg/kg	40		ND				30%	
2,4,6-Trichlorophenol	ND		13.3	mg/kg	40		ND				30%	
Bis(2-ethylhexyl)phthalate	ND		39.9	mg/kg	40		ND				30%	
Butyl benzyl phthalate	ND		26.7	mg/kg	40		ND				30%	
Diethylphthalate	ND		26.7	mg/kg	40		ND				30%	
Dimethylphthalate	ND		26.7	mg/kg	40		ND				30%	
Di-n-butylphthalate	ND		26.7	mg/kg	40		ND				30%	
Di-n-octyl phthalate	ND		26.7	mg/kg	40		ND				30%	
N-Nitrosodimethylamine	ND		6.66	mg/kg	40		ND				30%	
N-Nitroso-di-n-propylamine	ND		6.66	mg/kg	40		ND				30%	
N-Nitrosodiphenylamine	ND		6.66	mg/kg	40		ND				30%	
Bis(2-Chloroethoxy) methane	ND		6.66	mg/kg	40		ND				30%	
Bis(2-Chloroethyl) ether	ND		6.66	mg/kg	40		ND				30%	
2,2'-Oxybis(1-Chloropropane)	ND		6.66	mg/kg	40		ND				30%	
Hexachlorobenzene	ND		2.67	mg/kg	40		ND				30%	
Hexachlorobutadiene	ND		6.66	mg/kg	40		ND				30%	
Hexachlorocyclopentadiene	ND		13.3	mg/kg	40		ND				30%	
Hexachloroethane	ND		6.66	mg/kg	40		ND				30%	
2-Chloronaphthalene	ND		2.67	mg/kg	40		ND				30%	
1,2,4-Trichlorobenzene	ND		6.66	mg/kg	40		ND				30%	
4-Bromophenyl phenyl ether	ND		6.66	mg/kg	40		ND				30%	
4-Chlorophenyl phenyl ether	ND		6.66	mg/kg	40		ND				30%	
Aniline	ND		13.3	mg/kg	40		ND				30%	
4-Chloroaniline	ND		6.66	mg/kg	40		ND				30%	
2-Nitroaniline	ND		53.2	mg/kg	40		ND				30%	
3-Nitroaniline	ND		53.2	mg/kg	40		ND				30%	
4-Nitroaniline	ND		53.2	mg/kg	40		ND				30%	
Nitrobenzene	ND		26.7	mg/kg	40		ND				30%	
2,4-Dinitrotoluene	ND		26.7	mg/kg	40		ND				30%	
2,6-Dinitrotoluene	ND		26.7	mg/kg	40		ND				30%	

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile	Organic	Compour	nds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							Sol	id				
Duplicate (23D0146-DUP1)			Preparec	l: 04/05/23	09:55 Ana	lyzed: 04/05	/23 18:29					R-04
QC Source Sample: Tank 2-T (A3	8C1137-02)											
Benzoic acid	ND		333	mg/kg	40		ND				30%	
Benzyl alcohol	ND		13.3	mg/kg	40		ND				30%	
Isophorone	ND		6.66	mg/kg	40		ND				30%	
Azobenzene (1,2-DPH)	ND		6.66	mg/kg	40		ND				30%	
Bis(2-Ethylhexyl) adipate	ND		66.6	mg/kg	40		ND				30%	
3,3'-Dichlorobenzidine	ND		53.2	mg/kg	40		ND				30%	Q-52
1,2-Dinitrobenzene	ND		66.6	mg/kg	40		ND				30%	
1,3-Dinitrobenzene	ND		66.6	mg/kg	40		ND				30%	
1,4-Dinitrobenzene	ND		66.6	mg/kg	40		ND				30%	
Pyridine	ND		13.3	mg/kg	40		ND				30%	
1,2-Dichlorobenzene	ND		6.66	mg/kg	40		ND				30%	
1,3-Dichlorobenzene	ND		6.66	mg/kg	40		ND				30%	
1,4-Dichlorobenzene	ND		6.66	mg/kg	40		ND				30%	
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 62 %	Limits: 37	7-122 %	Dilt	ution: 40x					S-05
2-Fluorobiphenyl (Surr)			88 %	44	4-120 %		"					S-05
Phenol-d6 (Surr)			1010 %	33	8-122 %		"					S-05
p-Terphenyl-d14 (Surr)			114 %	54	1-127 %		"					S-05
2-Fluorophenol (Surr)			43 %	35	5-120 %		"					S-05
2,4,6-Tribromophenol (Surr)			%	39	0-132 %		"					S-01

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number189690Project Manager:Jerry Wade

ade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile (Organic (Compoun	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							Liq	uid				
Blank (23D0179-BLK1)			Prepared	: 04/05/23	14:55 Anal	yzed: 04/05	/23 19:37					
EPA 8270E												
Acenaphthene	ND		0.100	mg/kg	1							
Acenaphthylene	ND		0.100	mg/kg	1							
Anthracene	ND		0.100	mg/kg	1							
Benz(a)anthracene	ND		0.100	mg/kg	1							
Benzo(a)pyrene	ND		0.150	mg/kg	1							
Benzo(b)fluoranthene	ND		0.150	mg/kg	1							
Benzo(k)fluoranthene	ND		0.150	mg/kg	1							
Benzo(g,h,i)perylene	ND		0.100	mg/kg	1							
Chrysene	ND		0.100	mg/kg	1							
Dibenz(a,h)anthracene	ND		0.100	mg/kg	1							
Fluoranthene	ND		0.100	mg/kg	1							
Fluorene	ND		0.100	mg/kg	1							
Indeno(1,2,3-cd)pyrene	ND		0.100	mg/kg	1							
1-Methylnaphthalene	ND		0.200	mg/kg	1							
2-Methylnaphthalene	ND		0.200	mg/kg	1							
Naphthalene	ND		0.200	mg/kg	1							
Phenanthrene	ND		0.100	mg/kg	1							
Pyrene	ND		0.100	mg/kg	1							
Carbazole	ND		0.150	mg/kg	1							
Dibenzofuran	ND		0.100	mg/kg	1							
2-Chlorophenol	ND		0.500	mg/kg	1							
4-Chloro-3-methylphenol	ND		1.00	mg/kg	1							
2.4-Dichlorophenol	ND		0.500	mg/kg	1							
2.4-Dimethylphenol	ND		0.500	mg/kg	1							
2.4-Dinitrophenol	ND		2.50	mg/kg	1							
4.6-Dinitro-2-methylphenol	ND		2.50	mg/kg	1							
2-Methylphenol	ND		0.250	mg/kg	1							
3+4-Methylphenol(s)	ND		0.250	mg/kg	1							
2-Nitrophenol	ND		1.00	mø/ko	1							
4-Nitrophenol	ND		1.00	mg/kg	1							
Pentachlorophenol (PCP)	ND		1.00	mg/kg	1							
Phenol	ND		0.200	mg/kg	1							
2,3,4,6-Tetrachlorophenol	ND		0.500	mg/kg	1							

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile	Organic (Compour	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							Liq	uid				
Blank (23D0179-BLK1)			Prepared	: 04/05/23	14:55 Ana	yzed: 04/05	/23 19:37					
2,3,5,6-Tetrachlorophenol	ND		0.500	mg/kg	1							
2,4,5-Trichlorophenol	ND		0.500	mg/kg	1							
2,4,6-Trichlorophenol	ND		0.500	mg/kg	1							
Bis(2-ethylhexyl)phthalate	ND		1.50	mg/kg	1							
Butyl benzyl phthalate	ND		1.00	mg/kg	1							
Diethylphthalate	ND		1.00	mg/kg	1							
Dimethylphthalate	ND		1.00	mg/kg	1							
Di-n-butylphthalate	ND		1.00	mg/kg	1							
Di-n-octyl phthalate	ND		1.00	mg/kg	1							
N-Nitrosodimethylamine	ND		0.250	mg/kg	1							
N-Nitroso-di-n-propylamine	ND		0.250	mg/kg	1							
N-Nitrosodiphenylamine	ND		0.250	mg/kg	1							
Bis(2-Chloroethoxy) methane	ND		0.250	mg/kg	1							
Bis(2-Chloroethyl) ether	ND		0.250	mg/kg	1							
2,2'-Oxybis(1-Chloropropane)	ND		0.250	mg/kg	1							
Hexachlorobenzene	ND		0.100	mg/kg	1							
Hexachlorobutadiene	ND		0.250	mg/kg	1							
Hexachlorocyclopentadiene	ND		0.500	mg/kg	1							
Hexachloroethane	ND		0.250	mg/kg	1							
2-Chloronaphthalene	ND		0.100	mg/kg	1							
1,2,4-Trichlorobenzene	ND		0.250	mg/kg	1							
4-Bromophenyl phenyl ether	ND		0.250	mg/kg	1							
4-Chlorophenyl phenyl ether	ND		0.250	mg/kg	1							
Aniline	ND		0.500	mg/kg	1							
4-Chloroaniline	ND		0.250	mg/kg	1							
2-Nitroaniline	ND		2.00	mg/kg	1							
3-Nitroaniline	ND		2.00	mg/kg	1							
4-Nitroaniline	ND		2.00	mg/kg	1							
Nitrobenzene	ND		1.00	mg/kg	1							
2.4-Dinitrotoluene	ND		1.00	mg/kg	1							
2.6-Dinitrotoluene	ND		1.00	mg/kg	1							
Benzoic acid	ND		12.5	mø/ko	1							
Benzyl alcohol	ND		0.500	mg/kg	1							
Isophorone	ND		0.250	mg/kg	1							
				6 6								

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile	Organic (Compour	ds by EP/	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							Liq	Juid				
Blank (23D0179-BLK1)			Preparec	1: 04/05/23	14:55 Ana	yzed: 04/05/	/23 19:37					
Azobenzene (1,2-DPH)	ND		0.250	mg/kg	1							
Bis(2-Ethylhexyl) adipate	ND		2.50	mg/kg	1							
3,3'-Dichlorobenzidine	ND		2.00	mg/kg	1							Q-5
1,2-Dinitrobenzene	ND		2.50	mg/kg	1							
1,3-Dinitrobenzene	ND		2.50	mg/kg	1							
1,4-Dinitrobenzene	ND		2.50	mg/kg	1							
Pyridine	ND		0.500	mg/kg	1							
1,2-Dichlorobenzene	ND		0.250	mg/kg	1							
1,3-Dichlorobenzene	ND		0.250	mg/kg	1							
1,4-Dichlorobenzene	ND		0.250	mg/kg	1							
Surr: Nitrobenzene-d5 (Surr)		Rec	overy: 63 %	Limits: 37	-122 %	Dilı	ution: 1x					
2-Fluorobiphenyl (Surr)			108 %	44	-120 %		"					
Phenol-d6 (Surr)			91 %	33	-122 %		"					
p-Terphenyl-d14 (Surr)			110 %	54	-127 %		"					
2-Fluorophenol (Surr)			91 %	35	-120 %		"					
2,4,6-Tribromophenol (Surr)			40 %	39	-132 %		"					
LCS (23D0179-BS1)			Prepared	1: 04/05/23	14:55 Ana	yzed: 04/05	/23 20:11					
EPA 8270E												
Acenaphthene	7.87		0.100	mg/kg	1	8.00		98	40-123%			
Acenaphthylene	7.43		0.100	mg/kg	1	8.00		93	32-132%			
Anthracene	7.89		0.100	mg/kg	1	8.00		99	47-123%			
Benz(a)anthracene	8.03		0.100	mg/kg	1	8.00		100	49-126%			
Benzo(a)pyrene	7.55		0.150	mg/kg	1	8.00		94	45-129%			
Benzo(b)fluoranthene	7.57		0.150	mg/kg	1	8.00		95	45-132%			
Benzo(k)fluoranthene	7.63		0.150	mg/kg	1	8.00		95	47-132%			
Benzo(g,h,i)perylene	8.36		0.100	mg/kg	1	8.00		104	43-134%			
Chrysene	7.90		0.100	mg/kg	1	8.00		99	50-124%			
Dibenz(a,h)anthracene	8.17		0.100	mg/kg	1	8.00		102	45-134%			
Fluoranthene	7.97		0.100	mg/kg	1	8.00		100	50-127%			
Fluorene	7.29		0.100	mg/kg	1	8.00		91	43-125%			
Indeno(1.2.3-cd)pyrene	7.74		0.100	mø/ko	1	8.00		97	45-133%			
1-Methylnaphthalene	7 77		0.200	mo/ko	1	8.00		97	40-120%			
2-Methylnaphthalene	8 4 1		0.200	mg/kg	1	8.00		105	38-122%			

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile	Organic (Compour	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							Liq	luid				
LCS (23D0179-BS1)			Prepared	: 04/05/23	14:55 Ana	lyzed: 04/05	/23 20:11					
Naphthalene	7.73		0.200	mg/kg	1	8.00		97	35-123%			
Phenanthrene	7.39		0.100	mg/kg	1	8.00		92	50-121%			
Pyrene	7.79		0.100	mg/kg	1	8.00		97	47-127%			
Carbazole	8.88		0.150	mg/kg	1	8.00		111	50-123%			
Dibenzofuran	7.80		0.100	mg/kg	1	8.00		97	44-120%			
2-Chlorophenol	8.72		0.500	mg/kg	1	8.00		109	34-121%			
4-Chloro-3-methylphenol	8.62		1.00	mg/kg	1	8.00		108	45-122%			
2,4-Dichlorophenol	9.00		0.500	mg/kg	1	8.00		112	40-122%			
2,4-Dimethylphenol	9.39		0.500	mg/kg	1	8.00		117	30-127%			
2,4-Dinitrophenol	5.24		2.50	mg/kg	1	8.00		65	10-137%			
4,6-Dinitro-2-methylphenol	5.80		2.50	mg/kg	1	8.00		73	29-132%			
2-Methylphenol	8.93		0.250	mg/kg	1	8.00		112	32-122%			Q-4
3+4-Methylphenol(s)	7.96		0.250	mg/kg	1	8.00		100	34-120%			
2-Nitrophenol	9.77		1.00	mg/kg	1	8.00		122	36-123%			Q-4
4-Nitrophenol	5.81		1.00	mg/kg	1	8.00		73	30-132%			
Pentachlorophenol (PCP)	6.17		1.00	mg/kg	1	8.00		77	25-133%			
Phenol	8.15		0.200	mg/kg	1	8.00		102	34-121%			
2,3,4,6-Tetrachlorophenol	7.29		0.500	mg/kg	1	8.00		91	44-125%			
2,3,5,6-Tetrachlorophenol	7.65		0.500	mg/kg	1	8.00		96	40-120%			
2,4,5-Trichlorophenol	8.15		0.500	mg/kg	1	8.00		102	41-124%			
2,4,6-Trichlorophenol	7.82		0.500	mg/kg	1	8.00		98	39-126%			
Bis(2-ethylhexyl)phthalate	8.15		1.50	mg/kg	1	8.00		102	51-133%			
Butyl benzyl phthalate	9.00		1.00	mg/kg	1	8.00		112	48-132%			
Diethylphthalate	7.26		1.00	mg/kg	1	8.00		91	50-124%			
Dimethylphthalate	7.90		1.00	mg/kg	1	8.00		99	48-124%			
Di-n-butylphthalate	8.61		1.00	mg/kg	1	8.00		108	51-128%			
Di-n-octyl phthalate	7.89		1.00	mg/kg	1	8.00		99	45-140%			
N-Nitrosodimethylamine	8.05		0.250	mg/kg	1	8.00		101	23-120%			
N-Nitroso-di-n-propylamine	7.94		0.250	mg/kg	1	8.00		99	36-120%			
N-Nitrosodiphenylamine	7.89		0.250	mg/kg	1	8.00		99	38-127%			
Bis(2-Chloroethoxy) methane	9.00		0.250	mg/kg	1	8.00		112	36-121%			
Bis(2-Chloroethyl) ether	6.96		0.250	mg/kg	1	8.00		87	31-120%			
2,2'-Oxybis(1-Chloropropane)	6.81		0.250	mg/kg	1	8.00		85	39-120%			
Hexachlorobenzene	7.29		0.100	mø/ko	- 1	8.00		91	45-122%			
Texaeliioroociizelle	1.29		0.100	mg/kg	1	0.00		<i>J</i> 1	-τJ-1ΔΔ/0			

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							Liq	uid				
LCS (23D0179-BS1)			Prepared	1: 04/05/23	14:55 Anal	yzed: 04/05	/23 20:11					
Hexachlorobutadiene	7.36		0.250	mg/kg	1	8.00		92	32-123%			
Hexachlorocyclopentadiene	9.36		0.500	mg/kg	1	8.00		117	10-140%			Q-4
Hexachloroethane	7.51		0.250	mg/kg	1	8.00		94	28-120%			
2-Chloronaphthalene	8.35		0.100	mg/kg	1	8.00		104	41-120%			
1,2,4-Trichlorobenzene	7.85		0.250	mg/kg	1	8.00		98	34-120%			
4-Bromophenyl phenyl ether	8.29		0.250	mg/kg	1	8.00		104	46-124%			
4-Chlorophenyl phenyl ether	8.05		0.250	mg/kg	1	8.00		101	45-121%			
Aniline	4.71		0.500	mg/kg	1	8.00		59	10-120%			
4-Chloroaniline	1.97		0.250	mg/kg	1	8.00		25	17-120%			
2-Nitroaniline	7.79		2.00	mg/kg	1	8.00		97	44-127%			
3-Nitroaniline	6.12		2.00	mg/kg	1	8.00		77	33-120%			
4-Nitroaniline	7.98		2.00	mg/kg	1	8.00		100	51-125%			
Nitrobenzene	8.25		1.00	mg/kg	1	8.00		103	34-122%			
2,4-Dinitrotoluene	7.57		1.00	mg/kg	1	8.00		95	48-126%			
2,6-Dinitrotoluene	7.82		1.00	mg/kg	1	8.00		98	46-124%			
Benzoic acid	10.2		6.25	mg/kg	1	16.0		64	10-140%			
Benzyl alcohol	7.88		0.500	mg/kg	1	8.00		98	29-122%			
Isophorone	7.84		0.250	mg/kg	1	8.00		98	30-122%			
Azobenzene (1,2-DPH)	7.75		0.250	mg/kg	1	8.00		97	39-125%			
Bis(2-Ethylhexyl) adipate	8.50		2.50	mg/kg	1	8.00		106	61-121%			
3,3'-Dichlorobenzidine	26.3		2.00	mg/kg	1	16.0		164	22-121%			Q-29, Q-31 Q-5
1,2-Dinitrobenzene	7.77		2.50	mg/kg	1	8.00		97	44-120%			
1,3-Dinitrobenzene	7.78		2.50	mg/kg	1	8.00		97	43-127%			
1,4-Dinitrobenzene	7.56		2.50	mg/kg	1	8.00		94	37-132%			
Pyridine	7.97		0.500	mg/kg	1	8.00		100	10-120%			
1,2-Dichlorobenzene	7.51		0.250	mg/kg	1	8.00		94	33-120%			
1,3-Dichlorobenzene	7.62		0.250	mg/kg	1	8.00		95	30-120%			
1,4-Dichlorobenzene	7.44		0.250	mg/kg	1	8.00		93	31-120%			
Surr: Nitrobenzene-d5 (Surr)		Recov	ery: 108 %	Limits: 37	-122 %	Dilu	ution: 1x					
2-Fluorobiphenyl (Surr)			105 %	44	-120 %		"					
Phenol-d6 (Surr)			117 %	33-	-122 %		"					
p-Terphenyl-d14 (Surr)			114 %	54	-127 %		"					
2-Fluorophenol (Surr)			112 %	35	-120 %		"					
2 4 6 Tribromonhanol (Surry)			07.9/	20	122.0%		"					

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

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NRC			1	Project:	Maul Fo	oster Alongi	i					
6211 N Ensign St			Pro	ject Numbe	er: 189690					R	eport ID	<u>. </u>
Portland, OR 97217			Proj	ect Manage	er: Jerry W	/ade			Α	3C1137	- 04 20 23	3 1304
		QU	ALITY CO	ONTROL	(QC) SA	MPLE R	ESULTS	5				
		Se	emivolatile (Organic (Compoun	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							Liq	uid				
LCS Dup (23D0179-BSD1)			Prepared	: 04/05/23	4:56 Anal	yzed: 04/05	/23 20:43					
EPA 8270E			1									
Acenaphthene	7.82		0.100	mg/kg	1	8.00		98	40-123%	0.7	30%	
Acenaphthylene	7.36		0.100	mg/kg	1	8.00		92	32-132%	0.9	30%	
Anthracene	7.94		0.100	mg/kg	1	8.00		99	47-123%	0.6	30%	
Benz(a)anthracene	7.92		0.100	mg/kg	1	8.00		99	49-126%	1	30%	
Benzo(a)pyrene	7.49		0.150	mg/kg	1	8.00		94	45-129%	0.8	30%	
Benzo(b)fluoranthene	7.57		0.150	mg/kg	1	8.00		95	45-132%	0.009	30%	
Benzo(k)fluoranthene	7.54		0.150	mg/kg	1	8.00		94	47-132%	1	30%	
Benzo(g,h,i)pervlene	8.34		0.100	mg/kg	1	8.00		104	43-134%	0.3	30%	
Chrysene	7.87		0.100	mg/kg	1	8.00		98	50-124%	0.3	30%	
Dibenz(a,h)anthracene	8.00		0.100	mg/kg	1	8.00		100	45-134%	2	30%	
Fluoranthene	8.05		0.100	mg/kg	1	8.00		101	50-127%	1	30%	
Fluorene	7.24		0.100	mg/kg	1	8.00		91	43-125%	0.6	30%	
Indeno(1,2,3-cd)pyrene	7.62		0.100	mg/kg	1	8.00		95	45-133%	2	30%	
1-Methylnaphthalene	7.64		0.200	mg/kg	1	8.00		96	40-120%	2	30%	
2-Methylnaphthalene	8.24		0.200	mg/kg	1	8.00		103	38-122%	2	30%	
Naphthalene	7.66		0.200	mg/kg	1	8.00		96	35-123%	0.8	30%	
Phenanthrene	7.54		0.100	mg/kg	1	8.00		94	50-121%	2	30%	
Pyrene	7.92		0.100	mg/kg	1	8.00		99	47-127%	- 2	30%	
Carbazole	8.91		0.150	mo/ko	1	8.00		111	50-123%	0.3	30%	
Dibenzofiran	7 64		0.100	mg/kg	1	8.00		96	44-120%	2	30%	
2-Chlorophenol	8 36		0.500	mg/kg	1	8.00		104	34-121%	4	30%	
4-Chloro-3-methylphenol	8.46		1.00	mg/kg	1	8.00		104	45-122%	2	30%	
2 4-Dichlorophenol	8.81		0.500	mg/kg	1	8.00		110	40-122%	2	30%	
2.4-Dimethylphenol	8.99		0.500	mg/kg	1	8.00		112	30-122%	4	30%	
2.4-Dinitrophenol	5.09		2 50	mg/kg	1	8.00		64	10-137%	3	30%	
4 6-Dinitro-2-methylphenol	6.03		2.50	mg/kg	1	8.00		75	29-132%	4	30%	
2-Methylphenol	8.16		0.250	mg/kg	1	8.00		102	32-122%	9	30%	O-41
3+4-Methylphenol(s)	7 50		0.250	mg/kg	1	8.00		94	34-120%	, 6	30%	× 11
2-Nitronhenol	10.1		1.00	mg/kg	1	8.00		126	36-123%	3	30%	0-29 0-41
4-Nitrophenol	5.04		1.00	mg/kg	1	8.00		74	30-120%	2 2	30%	<u>≺</u> =>, <u>≺</u> †1
Pentachlorophenol (PCP)	6.28		1.00	mg/kg	1	8.00		78	25-132%	2	30%	
Phenol	7 72		0.200	mg/kg	1	8.00		97	34_121%	5	30%	
2 3 4 6-Tetrachlorophenol	7 42		0.500	mg/kg	1	8.00		93	44_125%	2	30%	
	/.=2		0.500	mg/kg	1	0.00		,,	TT 12370	2	5070	

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyce Detection Reporting Linit Unit Dithe Splik			Se	emivolatile	Organic (Compoun	ds by EP	A 8270E					
Bach 23D0179-EPA 38904 Lipuit Lipuit Lass of transhorophenol 7.6	Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
LCS Dup (23D0179-BSD1) Prepared: 04/05/23 14/56 Analyzed: 04/05/23 10/05/25 20/31 2,3,5,5.Tetlanchlorophenol 8,61 96 40.120% 0.1 30% 2,4,5.Trichlorophenol 7,79 0,500 mg/kg 1 8,00 96 40.120% 0.4 30% 2,4,6.Trichlorophenol 7,79 0,500 mg/kg 1 8,00 96 51.133% 6 30% Bid(2-chlylphthlate 7,67 1.00 mg/kg 1 8,00 90 50.124% 0.3 30% Dirthylphthlate 7,82 1.00 mg/kg 1 8,00 90 50.124% 0.3 30% Din-ncylphthlate 7,61 1.00 mg/kg 1 8,00 90 50.124% 0.4 30% Din-ncylphthlate 7,61 1.00 mg/kg 1 8,00 87 23.120% 1.4 30% Din-ncylphthlate 7,61 0.250	Batch 23D0179 - EPA 3580A							Lic	luid				
2.3,5,6-Iertachlorophenol 7.66 0.500 mgkg 1 8.00 96 40-120% 0.1 0% 2,4,5-Trichlorophenol 8.11 0.500 mgkg 1 8.00 96 41-124% 0.04 30% Bid(2-thylhexylphthalate 7.67 1.50 mgkg 1 8.00 96 51-133% 6 30% Dirtylphthalate 7.67 1.00 mgkg 1 8.00 96 51-134% 4 30% Dirtylphthalate 7.23 1.00 mgkg 1 8.00 98 48-124% 1 30% Dirn-bylphthalate 7.62 1.00 mgkg 1 8.00 95 45-140% 4 30% N-Nitrosodimethylamine 7.31 0.250 mgkg 1 8.00 91 36-120% 4 30% N-Nitrosodiphenylamine 7.31 0.250 mgkg 1 8.00<	LCS Dup (23D0179-BSD1)			Prepared	: 04/05/23	14:56 Anal	yzed: 04/05	/23 20:43					
2,4,5.Trichlorophenol 8,11 0.500 mg/kg 1 8.00 97 39-126% 0.4 30% 2,4,6-Trichlorophenol 7,79 1.50 mg/kg 1 8.00 97 39-126% 0.4 30% Buryl benzyl phthalate 7,63 1.00 mg/kg 1 8.00 90 50-124% 0.3 30% Direntylphthalate 7,82 1.00 mg/kg 1 8.00 90 50-124% 0.3 30% Direntylphthalate 7,82 1.00 mg/kg 1 8.00 98 48-124% 1 30% Direntylphthalate 7,61 1.00 mg/kg 1 8.00 91 36-120% 84 30% N-Nitrosodimetylamine 7,33 0.250 mg/kg 1 8.00 91 36-120% 30% 30% Silc/2-Chorothyl ether 6.92 0.250 mg/kg 1	2,3,5,6-Tetrachlorophenol	7.66		0.500	mg/kg	1	8.00		96	40-120%	0.1	30%	
2,4,6-Ticklorophenol 7,79 0.500 mg/kg 1 8.00 97 39-126% 0.4 30% Bia(2-thi)haxyl)phthalate 7,67 1.50 mg/kg 1 8.00 96 51-133% 6 30% Dientylphthalate 7,23 1.00 mg/kg 1 8.00 98 48-124% 1 30% Dinentylphthalate 7,82 1.00 mg/kg 1 8.00 98 48-124% 1 30% Din-notylphthalate 7,61 1.00 mg/kg 1 8.00 95 45-140% 4 30% N-Nitrosodinethylamine 6,98 0.250 mg/kg 1 8.00 91 36-120% 43 30% N-Nitrosodinethylamine 7,93 0.250 mg/kg 1 8.00 91 36-121% 4.3 30% N-Nitrosodinethylamine 7,33 0.250 mg/kg 1	2,4,5-Trichlorophenol	8.11		0.500	mg/kg	1	8.00		101	41-124%	0.4	30%	
Bis(2-ethylphethylphethalate 7.67 1.50 mg/kg 1 8.00 96 51.133% 6 30% Buryl phthalate 8.65 1.00 mg/kg 1 8.00 108 48.132% 4 30% Dimethylphthalate 7.23 1.00 mg/kg 1 8.00 98 48.124% 1 30% Dimethylphthalate 7.82 1.00 mg/kg 1 8.00 98 48.124% 1 30% Din-brylphthalate 7.61 1.00 mg/kg 1 8.00 95 45.14% 4 30% N-Nitrosodimethylamine 6.98 0.250 mg/kg 1 8.00 87 31.120% 0.3 30% N-Nitrosodimethylamine 6.92 0.250 mg/kg 1 8.00 81 39-120% 4 30% Bis(2-Chloroethyl) ether 6.92 0.250 mg/kg 1 <t< td=""><td>2,4,6-Trichlorophenol</td><td>7.79</td><td></td><td>0.500</td><td>mg/kg</td><td>1</td><td>8.00</td><td></td><td>97</td><td>39-126%</td><td>0.4</td><td>30%</td><td></td></t<>	2,4,6-Trichlorophenol	7.79		0.500	mg/kg	1	8.00		97	39-126%	0.4	30%	
Butyl benzyl phthalate 8.65 1.00 mg/kg 1 8.00 108 48-123% 4 30% Diethylphthalate 7.23 1.00 mg/kg 1 8.00 90 50-124% 0.3 30% Din-hutylphthalate 7.23 1.00 mg/kg 1 8.00 98 48-124% 1 30% Din-butylphthalate 7.61 1.00 mg/kg 1 8.00 95 45.140% 4 30% N-Nitrosodin-propylamine 7.31 0.250 mg/kg 1 8.00 91 36-120% 83 30% N-Nitrosodiphenylamine 7.93 0.250 mg/kg 1 8.00 87 31-120% 0.6 30% Sig2(2-Chloroethyl) ether 6.47 0.250 mg/kg 1 8.00 81 39-120% 5 30% Lexachloroethane 7.33 0.250 mg/kg 1	Bis(2-ethylhexyl)phthalate	7.67		1.50	mg/kg	1	8.00		96	51-133%	6	30%	
Diethylphthalate 7.23 1.00 mg/kg 1 8.00 90 $50-124\%$ 0.3 30% Dimethylphthalate 7.82 1.00 mg/kg 1 8.00 98 $48+124\%$ 1 30% Din-butylphthalate 7.61 1.00 mg/kg 1 8.00 98 $48+124\%$ 4 30% Din-octyl phthalate 7.61 0.250 mg/kg 1 8.00 91 $36+120\%$ 8 30% N-Nitrosodirhenylamine 7.31 0.250 mg/kg 1 8.00 91 $36+120\%$ 8 30% N-Nitrosodiphenylamine 7.31 0.250 mg/kg 1 8.00 81 $39+120\%$ 4 30% Bis(2-Chloroethyl) ether 6.92 0.250 mg/kg 1 8.00 81 $39+120\%$ 4 30% 2,2'-Oxybis(1-Chloropropane) 6.47 0.250	Butyl benzyl phthalate	8.65		1.00	mg/kg	1	8.00		108	48-132%	4	30%	
Dimethylphthalate7.821.00mg/kg18.009848-124%130%Din-butylphthalate7.611.00mg/kg18.0010651-128%230%Din-butylphthalate7.611.00mg/kg18.009545.140%430%N-Nitrosodimethylamine6.980.250mg/kg18.009136.120%830%N-Nitrosodiphenylamine7.310.250mg/kg18.009938.127%0.430%Bis(2-Chloroethyl) ether6.920.250mg/kg18.0081391.20%530%Lexachlorobutafene7.330.250mg/kg18.0081391.20%530%Hexachlorobutafene7.330.250mg/kg18.009245.12%130%Hexachlorobutafene7.330.250mg/kg18.009328.12%130%Lexachlorobutafene8.890.500mg/kg18.009134.120%130%Lexachlorobutafene8.200.250mg/kg18.009328.120%130%Lexachlorobutafene8.200.250mg/kg18.00	Diethylphthalate	7.23		1.00	mg/kg	1	8.00		90	50-124%	0.3	30%	
Din-butylphthalate 8.45 1.00 mg/kg 1 8.00 106 51-128% 2 30% Din-butylphthalate 7.61 1.00 mg/kg 1 8.00 95 45-140% 4 30% N-Nitrosodimethylamine 6.98 0.250 mg/kg 1 8.00 87 23-120% 14 30% N-Nitrosodimethylamine 7.31 0.250 mg/kg 1 8.00 91 36-121% 4 30% N-Nitrosodimethylamine 7.33 0.250 mg/kg 1 8.00 91 36-121% 4 30% Dis/2-Chloroethoxy) methane 8.63 0.250 mg/kg 1 8.00 81 39-120% 5 30% Lexachlorobutadicen 6.92 0.250 mg/kg 1 8.00 92 45-122% 1 30% Hexachlorobutadicen 7.33 0.250 mg/kg 1	Dimethylphthalate	7.82		1.00	mg/kg	1	8.00		98	48-124%	1	30%	
Din-soctyl phthalate 7.61 1.00 mg/kg 1 8.00 95 45-140% 4 30% N-Nitrosodimethylamine 6.98 0.250 mg/kg 1 8.00 87 23-120% 14 30% N-Nitrosodimethylamine 7.31 0.250 mg/kg 1 8.00 91 36-120% 8 30% N-Nitrosodimethylamine 7.31 0.250 mg/kg 1 8.00 91 36-120% 8 30% N-Nitrosodimethylamine 7.33 0.250 mg/kg 1 8.00 87 31-120% 0.6 30% 2.2'-Cxybis(1-Chloroptopane) 6.47 0.250 mg/kg 1 8.00 81 39-120% 5 30% Hexachlorobutadiene 7.38 0.100 mg/kg 1 8.00 92 32-123% 0.4 30% 2-Chloronaphthalene 7.40 0.250 mg/kg <	Di-n-butylphthalate	8.45		1.00	mg/kg	1	8.00		106	51-128%	2	30%	
N-Nitrosodimethylamine 6.98 0.250 mg/kg 1 8.00 87 23-120% 14 30% N-Nitrosodin-propylamine 7.31 0.250 mg/kg 1 8.00 91 36-120% 8 30% N-Nitrosodiphenylamine 7.93 0.250 mg/kg 1 8.00 99 38-127% 0.4 30% Bis(2-Chloreethy)) ether 6.92 0.250 mg/kg 1 8.00 87 31-120% 0.6 30% Sig(2-Chloreethy)) ether 6.92 0.250 mg/kg 1 8.00 81 39-120% 5 30% Lexachlorobenzene 7.38 0.100 mg/kg 1 8.00 92 45-122% 1 30% Hexachlorobenzene 7.40 0.500 mg/kg 1 8.00 103 41-120% 2 30% 2-Chloronaphthalene 8.22 0.250 mg/kg <td< td=""><td>Di-n-octyl phthalate</td><td>7.61</td><td></td><td>1.00</td><td>mg/kg</td><td>1</td><td>8.00</td><td></td><td>95</td><td>45-140%</td><td>4</td><td>30%</td><td></td></td<>	Di-n-octyl phthalate	7.61		1.00	mg/kg	1	8.00		95	45-140%	4	30%	
N-Nitroso-din-propylamine 7.31 0.250 mg/kg 1 8.00 91 $36-120\%$ 8 30% N-Nitrosodiphenylamine 7.93 0.250 mg/kg 1 8.00 99 $38+127\%$ 0.4 30% Bis(2-Chloroethoxy) methane 8.63 0.250 mg/kg 1 8.00 87 $31-120\%$ 6.6 30% 2:2-Coxybis(1-Chloroptopane) 6.47 0.250 mg/kg 1 8.00 81 $39-120\%$ 5 30% Hexachlorobenzene 7.38 0.100 mg/kg 1 8.00 92 $45-122\%$ 1 30% Hexachlorobutadiene 7.33 0.500 mg/kg 1 8.00 91 $36-120\%$ 93 $28-120\%$ 1 30% Hexachlorobutadiene 7.33 0.500 mg/kg 1 8.00 11 10^{10} 12 30%	N-Nitrosodimethylamine	6.98		0.250	mg/kg	1	8.00		87	23-120%	14	30%	
N-Nitrosodiphenylamine 7.93 0.250 mg/kg 1 8.00 99 38.127% 0.4 30% Bis(2-Chloroethoxy) methane 8.63 0.250 mg/kg 1 8.00 108 36.121% 4 30% Bis(2-Chloroethxy) methane 6.92 0.250 mg/kg 1 8.00 87 31.120% 0.6 30% $2,2$ -Coxybis(1-Chloropropane) 6.47 0.250 mg/kg 1 8.00 87 31.120% 0.6 30% Hexachlorobenzene 7.38 0.250 mg/kg 1 8.00 92 32.123% 0.4 30% Hexachlorobenzene 7.33 0.250 mg/kg 1 8.00 93 28.120% 1 30% C-Chlorophenyl phenyl ether 8.22 0.100 mg/kg 1 8.00 93 28.120% 1 30%	N-Nitroso-di-n-propylamine	7.31		0.250	mg/kg	1	8.00		91	36-120%	8	30%	
Bis(2-Chloroethoxy) methane 8.63 0.250 mg/kg 1 8.00 108 $36-121\%$ 4 30% Bis(2-Chloroethyl) ether 6.92 0.250 mg/kg 1 8.00 87 $31-120\%$ 0.6 30% L2-Cxybis(1-Chloropropane) 6.47 0.250 mg/kg 1 8.00 81 $39-120\%$ 5 30% Hexachlorobenzene 7.38 0.250 mg/kg 1 8.00 92 $45-122\%$ 1 30% Hexachlorobenzene 7.33 0.250 mg/kg 1 8.00 92 $32-12\%$ 0.4 30% Hexachloroethane 7.40 0.250 mg/kg 1 8.00 93 $28-12\%$ 1 30% L2A-tricthorobenzene 7.40 0.250 mg/kg 1 8.00 97 $34-120\%$ 1 30% 4-C	N-Nitrosodiphenylamine	7.93		0.250	mg/kg	1	8.00		99	38-127%	0.4	30%	
Bis(2-Chloroethyl) ether 6.92 0.250 mg/kg 1 8.00 87 $31-120^{\circ}$ 0.6 30° L2,2-Oxybis(1-Chloropropane) 6.47 0.250 mg/kg 1 8.00 81 $39-120^{\circ}$ 5 30° Hexachlorobenzene 7.38 0.100 mg/kg 1 8.00 92 $45-122^{\circ}$ 1 30° Hexachlorobutadiene 7.33 0.250 mg/kg 1 8.00 92 $32-123^{\circ}$ 0.4 30° Hexachlorobutadiene 7.33 0.250 mg/kg 1 8.00 92 $32-123^{\circ}$ 0.4 30° JC-Chloroaphthalene 8.22 0.100 mg/kg 1 8.00 93 $28-120^{\circ}$ 1 30° 4-Stronophenyl phenyl ether 8.20 0.250 mg/kg 1 8.00 99 $45-121^{\circ}$ 1 <td>Bis(2-Chloroethoxy) methane</td> <td>8.63</td> <td></td> <td>0.250</td> <td>mg/kg</td> <td>1</td> <td>8.00</td> <td></td> <td>108</td> <td>36-121%</td> <td>4</td> <td>30%</td> <td></td>	Bis(2-Chloroethoxy) methane	8.63		0.250	mg/kg	1	8.00		108	36-121%	4	30%	
2,2'-Oxybis(1-Choropropane) 6.47 0.250 mg/kg 1 8.00 81 $39\cdot120\%$ 5 30% Hexachlorobenzene 7.38 0.100 mg/kg 1 8.00 92 $45\cdot122\%$ 1 30% Hexachlorobutadiene 7.33 0.250 mg/kg 1 8.00 92 $32\cdot123\%$ 0.4 30% Hexachlorocyclopentadiene 8.89 0.500 mg/kg 1 8.00 92 $32\cdot123\%$ 0.4 30% Lexachlorocyclopentadiene 7.40 0.250 mg/kg 1 8.00 93 $28\cdot120\%$ 1 30% 2-Chloronaphthalene 8.22 0.100 mg/kg 1 8.00 103 $41\cdot120\%$ 2 30% 4-Bromophenyl phenyl ether 7.75 0.250 mg/kg 1 8.00 97 $34\cdot120\%$ 1 30% 4-Chlorophenyl phenyl ether 7.95 0.250 mg/kg 1 8.00 99 $45\cdot121\%$ 1 30% 4-Chloroaniline 5.01 0.500 mg/kg 1 8.00 34 $17\cdot120\%$ 33 30% 2-Nitroaniline 7.72 0.250 mg/kg 1 8.00 96 $44\cdot127\%$ 0.9 30% 3-Nitroaniline 7.72 2.00 mg/kg 1 8.00 <td< td=""><td>Bis(2-Chloroethyl) ether</td><td>6.92</td><td></td><td>0.250</td><td>mg/kg</td><td>1</td><td>8.00</td><td></td><td>87</td><td>31-120%</td><td>0.6</td><td>30%</td><td></td></td<>	Bis(2-Chloroethyl) ether	6.92		0.250	mg/kg	1	8.00		87	31-120%	0.6	30%	
Hexachlorobenzene7.380.100 mg/kg 18.009245-122%130%Hexachlorobutadiene7.330.250 mg/kg 18.009232-123%0.430%Hexachlorocyclopentadiene8.890.500 mg/kg 18.009328-120%130%Hexachlorocthane7.400.250 mg/kg 18.009328-120%130%2-Chloronaphthalene8.220.100 mg/kg 18.009734-120%130%2-Chloronaphthalene7.750.250 mg/kg 18.009734-120%130%4-Bromophenyl phenyl ether8.200.250 mg/kg 18.009945-121%130%4-Chlorophenyl phenyl ether7.950.250 mg/kg 18.006310-120%630%4-Chlorophenyl phenyl ether7.720.250 mg/kg 18.006310-120%6330%2-Nitroaniline7.720.20 mg/kg 18.009644-127%0.930%3-Nitroaniline6.002.00 mg/kg 18.009851-125%230%2,4-Dinitrotoluene7.781.00 mg/kg <td>2,2'-Oxybis(1-Chloropropane)</td> <td>6.47</td> <td></td> <td>0.250</td> <td>mg/kg</td> <td>1</td> <td>8.00</td> <td></td> <td>81</td> <td>39-120%</td> <td>5</td> <td>30%</td> <td></td>	2,2'-Oxybis(1-Chloropropane)	6.47		0.250	mg/kg	1	8.00		81	39-120%	5	30%	
Hexachlorobutadiene7.33 0.250 mg/kg 1 8.00 92 $32-123\%$ 0.4 30% Hexachlorocyclopentadiene 8.89 0.500 mg/kg 1 8.00 93 $28-120\%$ 1 30% Hexachlorocthane 7.40 0.250 mg/kg 1 8.00 93 $28-120\%$ 1 30% 2-Chloronaphthalene 8.22 0.100 mg/kg 1 8.00 97 $34\cdot120\%$ 1 30% 2-Chloronaphthalene 7.75 0.250 mg/kg 1 8.00 97 $34\cdot120\%$ 1 30% 4-Bromophenyl phenyl ether 7.95 0.250 mg/kg 1 8.00 99 $45\cdot121\%$ 1 30% 4-Chlorophenyl phenyl ether 7.95 0.250 mg/kg 1 8.00 99 $45\cdot121\%$ 1 30% Aniline 5.01 0.250 mg/kg 1 8.00 63 $10\cdot120\%$ 6 30% A-Chloroaniline 2.75 0.250 mg/kg 1 8.00 99 $45\cdot121\%$ 1 30% 2-Nitroaniline 7.72 0.250 mg/kg 1 8.00 96 $44\cdot127\%$ 0.9 30% 3-Nitroaniline 7.72 2.00 mg/kg 1 8.00 98 $51\cdot125\%$ </td <td>Hexachlorobenzene</td> <td>7.38</td> <td></td> <td>0.100</td> <td>mg/kg</td> <td>1</td> <td>8.00</td> <td></td> <td>92</td> <td>45-122%</td> <td>1</td> <td>30%</td> <td></td>	Hexachlorobenzene	7.38		0.100	mg/kg	1	8.00		92	45-122%	1	30%	
Hexachlorocyclopentadiene8.890.500 mg/kg 18.0011110-140%530%Q-4Hexachlorocthane7.400.250 mg/kg 18.009328-120%130%2-Chloronaphthalene8.220.100 mg/kg 18.009734-120%130%2-Chloronaphthalene7.750.250 mg/kg 18.009734-120%130%4-Bromophenyl phenyl ether8.200.250 mg/kg 18.009945-121%130%4-Chlorophenyl phenyl ether7.950.250 mg/kg 18.006310-120%630%4-Chloroaniline5.010.500 mg/kg 18.009644-127%0.930%2-Nitroaniline7.722.00 mg/kg 18.009644-127%0.930%3-Nitroaniline6.002.00 mg/kg 18.009851-125%230%4-Nitroaniline7.852.00 mg/kg 18.009934-122%430%2,4-Dinitrotoluene7.781.00 mg/kg 18.009748-126%330%2,6-Dinitrotoluene8.061.00 <td>Hexachlorobutadiene</td> <td>7.33</td> <td></td> <td>0.250</td> <td>mg/kg</td> <td>1</td> <td>8.00</td> <td></td> <td>92</td> <td>32-123%</td> <td>0.4</td> <td>30%</td> <td></td>	Hexachlorobutadiene	7.33		0.250	mg/kg	1	8.00		92	32-123%	0.4	30%	
Hexachloroethan7.40 0.250 mg/kg 1 8.00 93 28.120% 1 30% 2-Chloronaphthalene 8.22 0.100 mg/kg 1 8.00 103 41.120% 2 30% 2-Chloronaphthalene 7.75 0.250 mg/kg 1 8.00 97 34.120% 1 30% 4-Bromophenyl phenyl ether 8.20 0.250 mg/kg 1 8.00 97 34.120% 1 30% 4-Chlorophenyl phenyl ether 7.95 0.250 mg/kg 1 8.00 99 45.121% 1 30% Aniline 5.01 0.500 mg/kg 1 8.00 63 $10-120\%$ 6 30% 4-Chloroaniline 2.75 0.250 mg/kg 1 8.00 34 $17-120\%$ 33 30% $Q-2$ 2-Nitroaniline 7.72 2.00 mg/kg 1 8.00 96 44.127% 0.9 30% 3-Nitroaniline 6.00 2.00 mg/kg 1 8.00 98 51.125% 2 30% 3-Nitroaniline 7.8 1.00 mg/kg 1 8.00 99 34.122% 4 30% 2,4-Dinitrotoluene 7.78 1.00 mg/kg 1 8.00 97 48.126% <td>Hexachlorocyclopentadiene</td> <td>8.89</td> <td></td> <td>0.500</td> <td>mg/kg</td> <td>1</td> <td>8.00</td> <td></td> <td>111</td> <td>10-140%</td> <td>5</td> <td>30%</td> <td>Q-4</td>	Hexachlorocyclopentadiene	8.89		0.500	mg/kg	1	8.00		111	10-140%	5	30%	Q-4
2-Chloronaphthalene 8.22 \cdots 0.100 mg/kg 1 8.00 \cdots 103 $41-120\%$ 2 30% $1,2,4$ -Trichlorobenzene 7.75 \cdots 0.250 mg/kg 1 8.00 \cdots 97 $34\cdot120\%$ 1 30% 4 -Bromophenyl phenyl ether 8.20 \cdots 0.250 mg/kg 1 8.00 \cdots 99 $45\cdot121\%$ 1 30% 4 -Chlorophenyl phenyl ether 7.95 \cdots 0.250 mg/kg 1 8.00 \cdots 99 $45\cdot121\%$ 1 30% 4 -Chloroaniline 5.01 \cdots 0.500 mg/kg 1 8.00 \cdots 63 $10\cdot120\%$ 6 30% 4 -Chloroaniline 2.75 \cdots 0.250 mg/kg 1 8.00 \cdots 34 $17\cdot120\%$ 33 30% 4 -Chloroaniline 7.72 \cdots 0.200 mg/kg 1 8.00 \cdots 34 $17\cdot120\%$ 33 30% 4 -Nitroaniline 6.00 \cdots 2.00 mg/kg 1 8.00 \cdots 96 $44\cdot127\%$ 0.9 30% 4 -Nitroaniline 7.72 \cdots 2.00 mg/kg 1 8.00 \cdots 98 $51\cdot125\%$ 2 30% 4 -Nitroaniline 7.85 \cdots 2.00 mg/kg 1 8.00 \cdots 99 $34\cdot122\%$ 4 30% $2,4$ -Dinitrotoluene 7.86 \cdots 1.00 mg/kg 1 <td< td=""><td>Hexachloroethane</td><td>7.40</td><td></td><td>0.250</td><td>mg/kg</td><td>1</td><td>8.00</td><td></td><td>93</td><td>28-120%</td><td>1</td><td>30%</td><td></td></td<>	Hexachloroethane	7.40		0.250	mg/kg	1	8.00		93	28-120%	1	30%	
1.2,4-Trichlorobenzene7.75 0.250 mg/kg1 8.00 97 $34\cdot120\%$ 1 30% 4-Bromophenyl phenyl ether 8.20 0.250 mg/kg1 8.00 102 $46\cdot124\%$ 1 30% 4-Chlorophenyl phenyl ether 7.95 0.250 mg/kg1 8.00 99 $45\cdot121\%$ 1 30% Aniline 5.01 0.500 mg/kg1 8.00 63 $10\cdot120\%$ 6 30% 4-Chloroaniline 2.75 0.250 mg/kg1 8.00 63 $10\cdot120\%$ 33 30% $Q\cdot2$ 2-Nitroaniline 7.72 2.00 mg/kg1 8.00 96 $44\cdot127\%$ 0.9 30% 3-Nitroaniline 6.00 2.00 mg/kg1 8.00 96 $44\cdot127\%$ 0.9 30% 3-Nitroaniline 7.85 2.00 mg/kg1 8.00 98 $51\cdot125\%$ 2 30% A-Nitroaniline 7.85 2.00 mg/kg1 8.00 99 $34\cdot122\%$ 4 30% A-Nitroaniline 7.8 1.00 mg/kg1 8.00 98 $51\cdot125\%$ 2 30% A-Dinitrotoluene 7.8 1.00 mg/kg1 8.00 97 $48\cdot126\%$ 3 30% <	2-Chloronaphthalene	8.22		0.100	mg/kg	1	8.00		103	41-120%	2	30%	
4-Bromophenyl phenyl ether 8.20 0.250 mg/kg 1 8.00 102 46-124% 1 30% 4-Chlorophenyl phenyl ether 7.95 0.250 mg/kg 1 8.00 99 45-121% 1 30% Aniline 5.01 0.500 mg/kg 1 8.00 63 10-120% 6 30% 4-Chloroaniline 2.75 0.250 mg/kg 1 8.00 63 10-120% 6 30% 4-Chloroaniline 2.75 0.250 mg/kg 1 8.00 34 17-120% 33 30% Q-2 2-Nitroaniline 7.72 2.00 mg/kg 1 8.00 96 44-127% 0.9 30% 4-Nitroaniline 7.85 2.00 mg/kg 1 8.00 98 51-125% 2 30% 2,4-Dinitrotoluene 7.78 1.00 mg/kg 1 <td>1,2,4-Trichlorobenzene</td> <td>7.75</td> <td></td> <td>0.250</td> <td>mg/kg</td> <td>1</td> <td>8.00</td> <td></td> <td>97</td> <td>34-120%</td> <td>1</td> <td>30%</td> <td></td>	1,2,4-Trichlorobenzene	7.75		0.250	mg/kg	1	8.00		97	34-120%	1	30%	
4-Chlorophenyl phenyl ether 7.95 0.250 mg/kg 1 8.00 99 45-121% 1 30% Aniline 5.01 0.500 mg/kg 1 8.00 63 10-120% 6 30% 4-Chloroaniline 2.75 0.250 mg/kg 1 8.00 34 17-120% 33 30% Q-2 2-Nitroaniline 7.72 2.00 mg/kg 1 8.00 96 44-127% 0.9 30% 3-Nitroaniline 6.00 2.00 mg/kg 1 8.00 96 44-127% 0.9 30% 4-Nitroaniline 7.85 2.00 mg/kg 1 8.00 98 51-125% 2 30% Airboaniline 7.85 2.00 mg/kg 1 8.00 98 51-125% 2 30% 2,4-Dinitrotoluene 7.78 1.00 mg/kg 1 8.00 <t< td=""><td>4-Bromophenyl phenyl ether</td><td>8.20</td><td></td><td>0.250</td><td>mg/kg</td><td>1</td><td>8.00</td><td></td><td>102</td><td>46-124%</td><td>1</td><td>30%</td><td></td></t<>	4-Bromophenyl phenyl ether	8.20		0.250	mg/kg	1	8.00		102	46-124%	1	30%	
Aniline 5.01 \cdots 0.500 mg/kg 1 8.00 \cdots 63 $10-120\%$ 6 30% 4-Chloroaniline 2.75 \cdots 0.250 mg/kg 1 8.00 \cdots 34 $17-120\%$ 33 30% $Q-2$ 2-Nitroaniline 7.72 \cdots 2.00 mg/kg 1 8.00 \cdots 96 $44-127\%$ 0.9 30% 3-Nitroaniline 6.00 \cdots 2.00 mg/kg 1 8.00 \cdots 96 $44-127\%$ 0.9 30% 4-Nitroaniline 7.85 \cdots 2.00 mg/kg 1 8.00 \cdots 98 $51-125\%$ 2 30% A-Nitrobenzene 7.90 \cdots 1.00 mg/kg 1 8.00 \cdots 99 $34-122\%$ 4 30% 2,4-Dinitrotoluene 7.78 \cdots 1.00 mg/kg 1 8.00 \cdots 97 $48-126\%$ 3 30% 2,6-Dinitrotoluene 8.06 \cdots 1.00 mg/kg 1 8.00 \cdots 97 $48-126\%$ 3 30% Benzoic acid 9.81 \cdots 6.25 mg/kg 1 8.00 \cdots 93 $29-122\%$ 5 30% Benzyl alcohol 7.47 \cdots 0.500 mg/kg 1 8.00 \cdots 93 $29-122\%$ 5 30% Isophorone 7.58 \cdots 0.250 mg/kg 1 8.00 \cdots 93 $29-122\%$ <td< td=""><td>4-Chlorophenyl phenyl ether</td><td>7.95</td><td></td><td>0.250</td><td>mg/kg</td><td>1</td><td>8.00</td><td></td><td>99</td><td>45-121%</td><td>1</td><td>30%</td><td></td></td<>	4-Chlorophenyl phenyl ether	7.95		0.250	mg/kg	1	8.00		99	45-121%	1	30%	
4-Chloroaniline 2.75 \cdots 0.250 mg/kg 1 8.00 \cdots 34 $17-120\%$ 33 30% $Q-2$ 2-Nitroaniline 7.72 \cdots 2.00 mg/kg 1 8.00 \cdots 96 $44-127\%$ 0.9 30% 3-Nitroaniline 6.00 \cdots 2.00 mg/kg 1 8.00 \cdots 96 $44-127\%$ 0.9 30% 3-Nitroaniline 6.00 \cdots 2.00 mg/kg 1 8.00 \cdots 75 $33-120\%$ 2 30% 4-Nitroaniline 7.85 \cdots 2.00 mg/kg 1 8.00 \cdots 98 $51-125\%$ 2 30% Nitrobenzene 7.90 \cdots 1.00 mg/kg 1 8.00 \cdots 99 $34-122\%$ 4 30% 2,4-Dinitrotoluene 7.78 \cdots 1.00 mg/kg 1 8.00 \cdots 97 $48-126\%$ 3 30% 2,6-Dinitrotoluene 8.06 \cdots 1.00 mg/kg 1 8.00 \cdots 97 $48-126\%$ 3 30% Benzoic acid 9.81 \cdots 6.25 mg/kg 1 8.00 \cdots 93 $29-122\%$ 5 30% Benzyl alcohol 7.47 \cdots 0.500 mg/kg 1 8.00 \cdots 93 $29-122\%$ 5 30% Isophorone 7.58 \cdots 0.250 mg/kg 1 8.00 \cdots 95 $30-122\%$ <td>Aniline</td> <td>5.01</td> <td></td> <td>0.500</td> <td>mg/kg</td> <td>1</td> <td>8.00</td> <td></td> <td>63</td> <td>10-120%</td> <td>6</td> <td>30%</td> <td></td>	Aniline	5.01		0.500	mg/kg	1	8.00		63	10-120%	6	30%	
2-Nitroaniline 7.72 \cdots 2.00 mg/kg 1 8.00 \cdots 96 $44\cdot127\%$ 0.9 30% 3-Nitroaniline 6.00 \cdots 2.00 mg/kg 1 8.00 \cdots 75 $33\cdot120\%$ 2 30% 4-Nitroaniline 7.85 \cdots 2.00 mg/kg 1 8.00 \cdots 98 $51\cdot125\%$ 2 30% Nitrobenzene 7.90 \cdots 1.00 mg/kg 1 8.00 \cdots 99 $34\cdot122\%$ 4 30% 2,4-Dinitrotoluene 7.78 \cdots 1.00 mg/kg 1 8.00 \cdots 97 $48\cdot126\%$ 3 30% 2,6-Dinitrotoluene 8.06 \cdots 1.00 mg/kg 1 8.00 \cdots 97 $48\cdot126\%$ 3 30% Benzoic acid 9.81 \cdots 6.25 mg/kg 1 8.00 \cdots 61 $10\cdot140\%$ 4 30% Benzyl alcohol 7.47 \cdots 0.500 mg/kg 1 8.00 \cdots 93 $29\cdot122\%$ 5 30% Isophorone 7.58 \cdots 0.250 mg/kg 1 8.00 \cdots 95 $30\cdot122\%$ 3 30%	4-Chloroaniline	2.75		0.250	mg/kg	1	8.00		34	17-120%	33	30%	Q-2
3-Nitroaniline 6.00 \cdots 2.00 mg/kg 1 8.00 \cdots 75 $33-120\%$ 2 30% 4-Nitroaniline 7.85 \cdots 2.00 mg/kg 1 8.00 \cdots 98 $51-125\%$ 2 30% Nitrobenzene 7.90 \cdots 1.00 mg/kg 1 8.00 \cdots 99 $34-122\%$ 4 30% 2,4-Dinitrotoluene 7.78 \cdots 1.00 mg/kg 1 8.00 \cdots 97 $48-126\%$ 3 30% 2,6-Dinitrotoluene 8.06 \cdots 1.00 mg/kg 1 8.00 \cdots 97 $48-126\%$ 3 30% 2,6-Dinitrotoluene 8.06 \cdots 1.00 mg/kg 1 8.00 \cdots 91 $46-124\%$ 3 30% Benzoic acid 9.81 \cdots 6.25 mg/kg 1 16.0 \cdots 61 $10-140\%$ 4 30% Benzyl alcohol 7.47 \cdots 0.500 mg/kg 1 8.00 \cdots 93 $29-122\%$ 5 30% Isonborone 7.58 \cdots 0.250 mg/kg 1 8.00 \cdots 95 $30-122\%$ 3 30%	2-Nitroaniline	7.72		2.00	mg/kg	1	8.00		96	44-127%	0.9	30%	
4-Nitroaniline 7.85 2.00 mg/kg 1 8.00 98 51-125% 2 30% Nitrobenzene 7.90 1.00 mg/kg 1 8.00 99 34-122% 4 30% 2,4-Dinitrotoluene 7.78 1.00 mg/kg 1 8.00 97 48-126% 3 30% 2,6-Dinitrotoluene 8.06 1.00 mg/kg 1 8.00 97 48-126% 3 30% 2,6-Dinitrotoluene 8.06 1.00 mg/kg 1 8.00 97 48-126% 3 30% 2,6-Dinitrotoluene 8.06 1.00 mg/kg 1 8.00 101 46-124% 3 30% Benzoic acid 9.81 6.25 mg/kg 1 16.0 61 10-140% 4 30% Benzyl alcohol 7.47 0.500 mg/kg 1 8.00 9	3-Nitroaniline	6.00		2.00	mg/kg	1	8.00		75	33-120%	2	30%	
Nitrobenzene 7.90 1.00 mg/kg 1 8.00 99 34-122% 4 30% 2,4-Dinitrotoluene 7.78 1.00 mg/kg 1 8.00 97 48-126% 3 30% 2,6-Dinitrotoluene 8.06 1.00 mg/kg 1 8.00 97 48-126% 3 30% 2,6-Dinitrotoluene 8.06 1.00 mg/kg 1 8.00 97 48-126% 3 30% 2,6-Dinitrotoluene 8.06 1.00 mg/kg 1 8.00 97 48-126% 3 30% Benzoic acid 9.81 6.25 mg/kg 1 16.0 61 10-140% 4 30% Benzyl alcohol 7.47 0.500 mg/kg 1 8.00 93 29-122% 5 30% Isophorone 7.58 0.250 mg/kg 1 8.00 95<	4-Nitroaniline	7.85		2.00	mg/kg	1	8.00		98	51-125%	2	30%	
2,4-Dinitrotoluene 7.78 1.00 mg/kg 1 8.00 97 48-126% 3 30% 2,6-Dinitrotoluene 8.06 1.00 mg/kg 1 8.00 97 48-126% 3 30% Benzoic acid 9.81 6.25 mg/kg 1 16.0 61 10-140% 4 30% Benzyl alcohol 7.47 0.500 mg/kg 1 8.00 93 29-122% 5 30% Isophorone 7.58 0.250 mg/kg 1 8.00 95 30-122% 3 30%	Nitrobenzene	7.90		1.00	mg/kg	1	8.00		99	34-122%	4	30%	
2,6-Dinitrotoluene 8.06 1.00 mg/kg 1 8.00 101 46-124% 3 30% Benzoic acid 9.81 6.25 mg/kg 1 16.0 61 10-140% 4 30% Benzyl alcohol 7.47 0.500 mg/kg 1 8.00 93 29-122% 5 30% Isophorone 7.58 0.250 mg/kg 1 8.00 95 30-122% 3 30%	2.4-Dinitrotoluene	7.78		1.00	mg/kg	1	8.00		97	48-126%	3	30%	
Benzoic acid 9.81 6.25 mg/kg 1 16.0 61 10-140% 4 30% Benzyl alcohol 7.47 0.500 mg/kg 1 8.00 93 29-122% 5 30% Isophorone 7.58 0.250 mg/kg 1 8.00 95 30-122% 3 30%	2.6-Dinitrotoluene	8.06		1.00	mg/kg	1	8.00		101	46-124%	3	30%	
Benzyl alcohol 7.47 0.500 mg/kg 1 8.00 93 29-122% 5 30% Isophorone 7.58 0.250 mg/kg 1 8.00 95 30-122% 3 30%	Benzoic acid	9.81		6.25	mg/kg	1	16.0		61	10-140%	4	30%	
Isophorone	Benzvl alcohol	7.47		0.500	mg/kg	1	8.00		93	29-122%	5	30%	
	Isophorone	7 58		0.250	mo/ko	1	8.00		95	30-122%	3	30%	

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Sei	mivolatile	Organic (Compour	nds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							Lic	quid				
LCS Dup (23D0179-BSD1)			Prepareo	1: 04/05/23	14:56 Ana	lyzed: 04/05	/23 20:43					
Azobenzene (1,2-DPH)	7.80		0.250	mg/kg	1	8.00		98	39-125%	0.7	30%	
Bis(2-Ethylhexyl) adipate	8.12		2.50	mg/kg	1	8.00		102	61-121%	5	30%	
3,3'-Dichlorobenzidine	22.4		2.00	mg/kg	1	16.0		140	22-121%	16	30%	Q-29, Q-31 Q-5
1,2-Dinitrobenzene	7.99		2.50	mg/kg	1	8.00		100	44-120%	3	30%	
1,3-Dinitrobenzene	7.96		2.50	mg/kg	1	8.00		100	43-127%	2	30%	
1,4-Dinitrobenzene	7.83		2.50	mg/kg	1	8.00		98	37-132%	4	30%	
Pyridine	7.96		0.500	mg/kg	1	8.00		100	10-120%	0.2	30%	
1,2-Dichlorobenzene	7.33		0.250	mg/kg	1	8.00		92	33-120%	2	30%	
1,3-Dichlorobenzene	7.56		0.250	mg/kg	1	8.00		95	30-120%	0.7	30%	
1,4-Dichlorobenzene	7.46		0.250	mg/kg	1	8.00		93	31-120%	0.2	30%	
Surr: Nitrobenzene-d5 (Surr)		Recov	ery: 101 %	Limits: 37	-122 %	Dili	ution: 1x					
2-Fluorobiphenyl (Surr)			104 %	44	-120 %		"					
Phenol-d6 (Surr)			107 %	33	-122 %		"					
p-Terphenyl-d14 (Surr)			112 %	54	-127 %		"					
2-Fluorophenol (Surr)			106 %	35	-120 %		"					
2,4,6-Tribromophenol (Surr)			96 %	39	-132 %		"					
Duplicate (23D0179-DUP1)			Prepareo	1: 04/05/23	14:55 Ana	lyzed: 04/05	5/23 21:50					R-04
QC Source Sample: Tank 4-T (A3	C1137-01)											
<u>EPA 8270E</u>			00.0		100						200/	
Acenaphthene	ND		90.9	mg/kg	100		ND				30%	
Acenaphthylene	ND		90.9	mg/kg	100		ND				30%	
Anurracene	ND		90.9	mg/kg	100		ND				30%	
Benz(a)anthracene	ND		90.9	mg/kg	100		ND				30%	
Benzo(a)pyrene	ND		136	mg/kg	100		ND				30%	
Benzo(b)fluoranthene	ND		136	mg/kg	100		ND				30%	
Benzo(k)fluoranthene	ND		136	mg/kg	100		ND				30%	
Benzo(g,h,1)perylene	ND		90.9	mg/kg	100		ND				30%	
Chrysene	ND		90.9	mg/kg	100		ND				30%	
Dibenz(a,h)anthracene	ND		90.9	mg/kg	100		ND				30%	
Fluoranthene	ND		90.9	mg/kg	100		ND				30%	
Fluorene	ND		90.9	mg/kg	100		ND				30%	
Indeno(1,2,3-cd)pyrene	ND		90.9	mg/kg	100		ND				30%	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	emivolatile	Organic (Compour	nds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							Liq	uid				
Duplicate (23D0179-DUP1)			Prepared	: 04/05/23	14:55 Ana	lyzed: 04/05	/23 21:50					R-04
QC Source Sample: Tank 4-T (A.	3C1137-01)											
1-Methylnaphthalene	ND		182	mg/kg	100		ND				30%	
2-Methylnaphthalene	ND		182	mg/kg	100		ND				30%	
Naphthalene	ND		182	mg/kg	100		ND				30%	
Phenanthrene	ND		90.9	mg/kg	100		ND				30%	
Pyrene	ND		90.9	mg/kg	100		ND				30%	
Carbazole	ND		136	mg/kg	100		ND				30%	
Dibenzofuran	ND		90.9	mg/kg	100		ND				30%	
2-Chlorophenol	ND		455	mg/kg	100		ND				30%	
4-Chloro-3-methylphenol	ND		909	mg/kg	100		ND				30%	
2,4-Dichlorophenol	ND		455	mg/kg	100		ND				30%	
2,4-Dimethylphenol	ND		455	mg/kg	100		ND				30%	
2,4-Dinitrophenol	ND		2270	mg/kg	100		ND				30%	
4,6-Dinitro-2-methylphenol	ND		2270	mg/kg	100		ND				30%	
2-Methylphenol	ND		227	mg/kg	100		ND				30%	
3+4-Methylphenol(s)	ND		227	mg/kg	100		ND				30%	
2-Nitrophenol	ND		909	mg/kg	100		ND				30%	
4-Nitrophenol	ND		909	mg/kg	100		ND				30%	
Pentachlorophenol (PCP)	ND		909	mg/kg	100		ND				30%	
Phenol	ND		182	mg/kg	100		ND				30%	
2,3,4,6-Tetrachlorophenol	ND		455	mg/kg	100		ND				30%	
2,3,5,6-Tetrachlorophenol	ND		455	mg/kg	100		ND				30%	
2,4,5-Trichlorophenol	ND		455	mg/kg	100		ND				30%	
2,4,6-Trichlorophenol	ND		455	mg/kg	100		ND				30%	
Bis(2-ethylhexyl)phthalate	ND		1360	mg/kg	100		ND				30%	
Butyl benzyl phthalate	ND		909	mg/kg	100		ND				30%	
Diethylphthalate	ND		909	mg/kg	100		ND				30%	
Dimethylphthalate	ND		909	mg/kg	100		ND				30%	
Di-n-butylphthalate	ND		909	mg/kg	100		ND				30%	
Di-n-octyl phthalate	ND		909	mg/kg	100		ND				30%	
N-Nitrosodimethylamine	ND		227	mg/kg	100		ND				30%	
N-Nitroso-di-n-propylamine	ND		227	mg/kg	100		ND				30%	
N-Nitrosodiphenylamine	ND		227	mg/kg	100		ND				30%	
Bis(2-Chloroethoxy) methane	ND		227	mg/kg	100		ND				30%	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							Liq	uid				
Duplicate (23D0179-DUP1)			Prepared	: 04/05/23	14:55 Anal	yzed: 04/05/	/23 21:50					R-04
QC Source Sample: Tank 4-T (A3	<u>C1137-01)</u>											
Bis(2-Chloroethyl) ether	ND		227	mg/kg	100		ND				30%	
2,2'-Oxybis(1-Chloropropane)	ND		227	mg/kg	100		ND				30%	
Hexachlorobenzene	ND		90.9	mg/kg	100		ND				30%	
Hexachlorobutadiene	ND		227	mg/kg	100		ND				30%	
Hexachlorocyclopentadiene	ND		455	mg/kg	100		ND				30%	
Hexachloroethane	ND		227	mg/kg	100		ND				30%	
2-Chloronaphthalene	ND		90.9	mg/kg	100		ND				30%	
,2,4-Trichlorobenzene	ND		227	mg/kg	100		ND				30%	
-Bromophenyl phenyl ether	ND		227	mg/kg	100		ND				30%	
-Chlorophenyl phenyl ether	ND		227	mg/kg	100		ND				30%	
Aniline	ND		455	mg/kg	100		ND				30%	
4-Chloroaniline	ND		227	mg/kg	100		ND				30%	
2-Nitroaniline	ND		1820	mg/kg	100		ND				30%	
3-Nitroaniline	ND		1820	mg/kg	100		ND				30%	
4-Nitroaniline	ND		1820	mg/kg	100		ND				30%	
Nitrobenzene	ND		909	mg/kg	100		ND				30%	
2,4-Dinitrotoluene	ND		909	mg/kg	100		ND				30%	
2,6-Dinitrotoluene	ND		909	mg/kg	100		ND				30%	
Benzoic acid	ND		11400	mg/kg	100		ND				30%	
Benzyl alcohol	ND		455	mg/kg	100		ND				30%	
sophorone	ND		227	mg/kg	100		ND				30%	
Azobenzene (1,2-DPH)	ND		227	mg/kg	100		ND				30%	
Bis(2-Ethylhexyl) adipate	ND		2270	mg/kg	100		ND				30%	
3,3'-Dichlorobenzidine	ND		1820	mg/kg	100		ND				30%	Q·
,2-Dinitrobenzene	ND		2270	mg/kg	100		ND				30%	
,3-Dinitrobenzene	ND		2270	mg/kg	100		ND				30%	
,4-Dinitrobenzene	ND		2270	mg/kg	100		ND				30%	
Pyridine	ND		455	mg/kg	100		ND				30%	
,2-Dichlorobenzene	ND		227	mg/kg	100		ND				30%	
,3-Dichlorobenzene	ND		227	mg/kg	100		ND				30%	
,4-Dichlorobenzene	ND		227	mg/kg	100		ND				30%	
Surr: Nitrobenzene-d5 (Surr)		Rece	overy: 88 %	Limits: 37	-122 %	Dilı	ution: 100x					S-05
2-Fluorobiphenvl (Surr)			100 %	44	-120 %		"					S-05

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St

Portland, OR 97217

Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

		Se	mivolatile	Organic	Compour	nds by EP	4 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							Liqu	id				
Duplicate (23D0179-DUP1)			Preparec	1: 04/05/23	14:55 Ana	yzed: 04/05/	23 21:50					R-04
QC Source Sample: Tank 4-T (A3	<u>C1137-01)</u>											
Surr: Phenol-d6 (Surr)		Recov	ery: 291 %	Limits: 3	3-122 %	Dilu	tion: 100x					S-05
p-Terphenyl-d14 (Surr)			119 %	5	4-127 %		"				L.	S-05
2-Fluorophenol (Surr)			69 %	3	5-120 %		"				L.	S-05
2,4,6-Tribromophenol (Surr)			346 %	<i>د</i>	9-132 %		"					S-05

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes		
Batch 23D0013 - EPA 3051A							Liqu	uid						
Blank (23D0013-BLK1)			Prepared:	: 04/03/23 0)7:25 Anal	yzed: 04/03/	/23 16:39							
EPA 6020B														
Arsenic	ND		2.50	mg/kg	5									
Barium	ND		2.50	mg/kg	5									
Cadmium	ND		0.500	mg/kg	5									
Chromium	ND		2.50	mg/kg	5									
Lead	ND		0.500	mg/kg	5									
Mercury	ND		0.200	mg/kg	5									
Selenium	ND		2.50	mg/kg	5									
Silver	ND		0.500	mg/kg	5									
LCS (23D0013-BS1)			Prepared:	04/03/23 0)7:25 Anal	yzed: 04/03/	23 16:44			_		_		
EPA 6020B														
Arsenic	125		2.50	mg/kg	5	125		100	80-120%					
Barium	127		2.50	mg/kg	5	125		102	80-120%					
Cadmium	124		0.500	mg/kg	5	125		99	80-120%					
Chromium	128		2.50	mg/kg	5	125		103	80-120%					
Lead	124		0.500	mg/kg	5	125		100	80-120%					
Mercury	2.32		0.200	mg/kg	5	2.50		93	80-120%					
Selenium	63.4		2.50	mg/kg	5	62.5		101	80-120%					
Silver	61.1		0.500	mg/kg	5	62.5		98	80-120%					
Duplicate (23D0013-DUP1)	_	_	Prepared:	04/03/23 0)7:25 Anal	yzed: 04/03/	23 16:55	_	_	-	_	_		
<u>QC Source Sample:</u> Tank 4-T (A	<u>3C1137-</u> 01)													
EPA 6020B	<u>`</u>													
Arsenic	ND		2.43	mg/kg	5		ND				20%			
Barium	ND		2.43	mg/kg	5		ND				20%			
Cadmium	ND		0.485	mg/kg	5		ND				20%			
Chromium	ND		2.43	mg/kg	5		ND				20%			
lead	ND		0.485	mg/kg	5		ND				20%			
/lercury	ND		0.194	mg/kg	5		ND				20%			
elenium	ND		2.43	mg/ko	5		ND				20%			
Silver	ND		0 485	ma/ka	5		ND				20%			

Matrix Spike (23D0013-MS1)

Prepared: 04/03/23 07:25 Analyzed: 04/03/23 17:16

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St

Portland, OR 97217

Project:Maul Foster AlongiProject Number:189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	letals by	EPA 6020	B (ICPMS	<u>5)</u>					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0013 - EPA 3051A							Liq	uid				
Matrix Spike (23D0013-MS1)			Prepared:	04/03/23 0)7:25 Anal	yzed: 04/03/	23 17:16					
QC Source Sample: Tank 4-T (A3C EPA 6020B	<u>21137-01)</u>											
Arsenic	117		2.38	mg/kg	5	119	ND	98	75-125%			
Barium	117		2.38	mg/kg	5	119	ND	98	75-125%			
Cadmium	116		0.476	mg/kg	5	119	ND	97	75-125%			
Chromium	121		2.38	mg/kg	5	119	ND	102	75-125%			
Lead	114		0.476	mg/kg	5	119	ND	96	75-125%			
Mercury	2.13		0.190	mg/kg	5	2.38	ND	89	75-125%			
Selenium	58.1		2.38	mg/kg	5	59.5	ND	98	75-125%			
Silver	57.2		0.476	mg/kg	5	59.5	ND	96	75-125%			

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

							2)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0210 - EPA 3051A							Sol	id				
Blank (23D0210-BLK1)			Prepared:	: 04/06/23 1	1:50 Anal	yzed: 04/07/	23 14:45					
EPA 6020B												
Arsenic	ND		1.00	mg/kg	10							
Barium	ND		1.00	mg/kg	10							
Cadmium	ND		0.200	mg/kg	10							
Chromium	ND		1.00	mg/kg	10							
Lead	ND		0.200	mg/kg	10							
Mercury	ND		0.0800	mg/kg	10							
Selenium	ND		1.00	mg/kg	10							
Silver	ND		0.200	mg/kg	10							
LCS (23D0210-BS1)			Prepared:	: 04/06/23 1	1:50 Anal	yzed: 04/07/	23 14:50					
EPA 6020B												
Arsenic	55.5		1.00	mg/kg	10	50.0		111	80-120%			
Barium	60.1		1.00	mg/kg	10	50.0		120	80-120%			
Cadmium	54.8		0.200	mg/kg	10	50.0		110	80-120%			
Chromium	55.5		1.00	mg/kg	10	50.0		111	80-120%			
Lead	59.5		0.200	mg/kg	10	50.0		119	80-120%			
Mercury	1.18		0.0800	mg/kg	10	1.00		118	80-120%			
Selenium	25.7		1.00	mg/kg	10	25.0		103	80-120%			
Silver	28.4		0.200	mg/kg	10	25.0		114	80-120%			
Duplicate (23D0210-DUP1)			Prepared:	04/06/23 1	1:50 Anal	yzed: 04/07/	23 15:10					
<u>OC Source Sample: Tank 0-T (A3</u> <u>EPA 6020B</u>	<u>3C1137-03)</u>											
Arsenic	ND		1.05	mg/kg	10		ND				20%	
Cadmium	1.88		0.209	mg/kg	10		1.48			24	20%	Q-1
Chromium	4.07		1.05	mg/kg	10		3.64			11	20%	
Lead	7.07		0.209	mg/kg	10		6.66			6	20%	
Mercury	0.161		0.0837	mg/kg	10		0.149			8	20%	
Selenium	ND		1.05	mg/kg	10		ND				20%	
Silver	ND		0.209	mg/ko	10		ND				20%	

Duplicate (23D0210-DUP2)

Prepared: 04/06/23 11:50 Analyzed: 04/07/23 15:29

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: <u>Maul Foster Alongi</u> Project Number: **189690**

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	letals by	EPA 602(3)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0210 - EPA 3051A							Sol	lid				
Duplicate (23D0210-DUP2)			Prepared	: 04/06/23 1	1:50 Ana	lyzed: 04/07	/23 15:29					
QC Source Sample: Tank 0-T (A3C	21137-03RI	<u>E1)</u>										
EPA 6020B Barium	780		10.5	mg/kg	100		726			7	20%	Q-1
Matrix Spike (23D0210-MS1)			Prepared	: 04/06/23 1	1:50 Anal	lyzed: 04/07	23 15:15					
QC Source Sample: Tank 0-T (A3C EPA 6020B	<u>C1137-03)</u>											
Arsenic	54.8		1.08	mg/kg	10	54.0	ND	102	75-125%			
Barium	672		1.08	mg/kg	10	54.0	698	-48	75-125%			E, Q-6
Cadmium	54.2		0.216	mg/kg	10	54.0	1.48	98	75-125%			
Chromium	57.6		1.08	mg/kg	10	54.0	3.64	100	75-125%			
Lead	61.5		0.216	mg/kg	10	54.0	6.66	101	75-125%			
Mercury	1.21		0.0864	mg/kg	10	1.08	0.149	98	75-125%			
Selenium	25.4		1.08	mg/kg	10	27.0	ND	94	75-125%			
Silver	27.8		0.216	mg/kg	10	27.0	ND	103	75-125%			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

			TCLP M	etals by	EPA 6020	DB (ICPMS	5)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0208 - EPA 1311/3	8015A						Sol	lid				
Blank (23D0208-BLK1)			Prepared:	04/06/23	11:36 Anal	yzed: 04/06	/23 18:00					
<u>1311/6020B</u>												
Arsenic	ND		0.100	mg/L	10							TCLI
Barium	ND		5.00	mg/L	10							TCLI
Cadmium	ND		0.100	mg/L	10							TCLI
Chromium	ND		0.100	mg/L	10							TCLI
Lead	ND		0.0500	mg/L	10							TCLI
Mercury	ND		0.00700	mg/L	10							TCLI
Selenium	ND		0.100	mg/L	10							TCLI
Silver	ND		0.100	mg/L	10							TCLI
LCS (23D0208-BS1)			Prepared:	04/06/23	11:36 Anal	yzed: 04/06	/23 18:06					
<u>1311/6020B</u>												
Arsenic	4.92		0.100	mg/L	10	5.00		98	80-120%			TCLI
Barium	9.94		5.00	mg/L	10	10.0		99	80-120%			TCLI
Cadmium	1.01		0.100	mg/L	10	1.00		101	80-120%			TCLI
Chromium	4.84		0.100	mg/L	10	5.00		97	80-120%			TCLI
Lead	5.17		0.0500	mg/L	10	5.00		103	80-120%			TCLI
Mercury	0.0996		0.00700	mg/L	10	0.100		100	80-120%			TCLI
Selenium	0.998		0.100	mg/L	10	1.00		100	80-120%			TCLI
Silver	0.942		0.100	mg/L	10	1.00		94	80-120%			TCLI
Duplicate (23D0208-DUP1)			Prepared:	04/06/23	11:36 Anal	yzed: 04/06	/23 18:16					
QC Source Sample: Tank 2-T ((A3C1137-02)											
<u>1311/6020B</u>												
Arsenic	ND		0.100	mg/L	10		ND				20%	TCLP
Barium	ND		5.00	mg/L	10		ND				20%	TCLP
Cadmium	ND		0.100	mg/L	10		ND				20%	TCLP
Chromium	ND		0.100	mg/L	10		ND				20%	TCLP
Lead	ND		0.0500	mg/L	10		ND				20%	TCLP
Mercury	ND		0.00700	mg/L	10		ND				20%	TCLP
Selenium	ND		0.100	mg/L	10		ND				20%	TCLP
Silver	ND		0.100	mg/L	10		ND				20%	TCLP

Matrix Spike (23D0208-MS1)

Prepared: 04/06/23 11:36 Analyzed: 04/06/23 18:22

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

			TCLP N	letals by	EPA 602	OB (ICPMS	5)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0208 - EPA 1311/301	5A						So	lid				
Matrix Spike (23D0208-MS1)			Prepared	04/06/23	11:36 Anal	lyzed: 04/06	/23 18:22					
<u>QC Source Sample: Tank 2-T (A30 1311/6020B</u>	C1137-02)											
Arsenic	4.88		0.100	mg/L	10	5.00	ND	98	50-150%			TCLI
Barium	11.2		5.00	mg/L	10	10.0	ND	112	50-150%			TCLI
Cadmium	1.03		0.100	mg/L	10	1.00	ND	103	50-150%			TCLI
Chromium	4.83		0.100	mg/L	10	5.00	ND	97	50-150%			TCLI
Lead	4.97		0.0500	mg/L	10	5.00	ND	99	50-150%			TCLI
Mercury	0.0969		0.00700	mg/L	10	0.100	ND	97	50-150%			TCLI
Selenium	1.00		0.100	mg/L	10	1.00	ND	100	50-150%			TCLI
Silver	0.941		0.100	mg/L	10	1.00	ND	94	50-150%			TCLI
Matrix Spike (23D0208-MS2)			Prepared	04/06/23	11:36 Anal	lyzed: 04/06/	/23 18:32					
QC Source Sample: Non-SDG (A31 1311/6020B	<u>D0737-01)</u>											
Arsenic	5.03		0.100	mg/L	10	5.00	ND	101	50-150%			
Barium	10.8		5.00	mg/L	10	10.0	ND	108	50-150%			
Cadmium	1.03		0.100	mg/L	10	1.00	ND	103	50-150%			
Chromium	4.98		0.100	mg/L	10	5.00	ND	100	50-150%			
Lead	5.05		0.0500	mg/L	10	5.00	ND	101	50-150%			
Mercury	0.0954		0.00700	mg/L	10	0.100	ND	95	50-150%			
Selenium	1.01		0.100	mg/L	10	1.00	ND	101	50-150%			
Silver	0.968		0.100	mg/L	10	1.00	ND	97	50-150%			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0209 - EPA 1311/3	015A						Sol	lid				
Blank (23D0209-BLK1)			Prepared:	04/06/23	11:36 Anal	yzed: 04/06	/23 16:50					
<u>1311/6020B</u>												
Arsenic	ND		0.100	mg/L	10							TCLP
Barium	ND		5.00	mg/L	10							TCLP
Cadmium	ND		0.100	mg/L	10							TCLP
Chromium	ND		0.100	mg/L	10							TCLP
Lead	ND		0.0500	mg/L	10							TCLP
Mercury	ND		0.00700	mg/L	10							TCLP
Selenium	ND		0.100	mg/L	10							TCLP
Silver	ND		0.100	mg/L	10							TCLP
LCS (23D0209-BS1)			Prepared:	04/06/23	11:36 Anal	yzed: 04/06	/23 16:56					
<u>1311/6020B</u>												
Arsenic	4.95		0.100	mg/L	10	5.00		99	80-120%			TCLP
Barium	10.0		5.00	mg/L	10	10.0		100	80-120%			TCLP
Cadmium	1.03		0.100	mg/L	10	1.00		103	80-120%			TCLP
Chromium	4.87		0.100	mg/L	10	5.00		97	80-120%			TCLP
Lead	5.08		0.0500	mg/L	10	5.00		102	80-120%			TCLP
Mercury	0.0962		0.00700	mg/L	10	0.100		96	80-120%			TCLP
Selenium	1.01		0.100	mg/L	10	1.00		101	80-120%			TCLP
Silver	0.966		0.100	mg/L	10	1.00		97	80-120%			TCLP
Duplicate (23D0209-DUP1)			Prepared:	04/06/23	11:36 Anal	yzed: 04/06	/23 17:07					
QC Source Sample: Tank 0-T (A3C1137-03)											
1311/6020B												
Arsenic	ND		0.100	mg/L	10		ND				20%	TCLP
Barium	ND		5.00	mg/L	10		ND				20%	TCLP
Cadmium	ND		0.100	mg/L	10		ND				20%	TCLP
Chromium	ND		0.100	mg/L	10		ND				20%	TCLP
Lead	ND		0.0500	mg/L	10		ND				20%	TCLP
Mercury	ND		0.00700	mg/L	10		ND				20%	TCLP
Selenium	ND		0.100	mg/L	10		ND				20%	TCLP
Silver	ND		0.100	mg/L	10		ND				20%	TCLP

Matrix Spike (23D0209-MS1)

Prepared: 04/06/23 11:36 Analyzed: 04/06/23 17:12

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St

Portland, OR 97217

Project: Maul Foster Alongi Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0209 - EPA 1311	Solid											
Matrix Spike (23D0209-M	11:36 Ana	yzed: 04/06	/23 17:12									
QC Source Sample: Tank 0-T 1311/6020B	<u>(A3C1137-03)</u>											
Arsenic	4.77		0.100	mg/L	10	5.00	ND	95	50-150%			TCLP
Barium	12.0		5.00	mg/L	10	10.0	ND	120	50-150%			TCLP
Cadmium	1.03		0.100	mg/L	10	1.00	ND	103	50-150%			TCLP
Chromium	4.72		0.100	mg/L	10	5.00	ND	94	50-150%			TCLP
Lead	5.03		0.0500	mg/L	10	5.00	ND	101	50-150%			TCLP
Mercury	0.0958		0.00700	mg/L	10	0.100	ND	96	50-150%			TCLP
Selenium	1.07		0.100	mg/L	10	1.00	ND	107	50-150%			TCLP
Silver	0.930		0.100	mg/L	10	1.00	ND	93	50-150%			TCLP

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217		P Pi	<u>Report ID:</u> A3C1137 - 04 20 23 1304								
SAMPLE PREPARATION INFORMATION											
Hydrocarbon Identification Screen by NWTPH-HCID											
Prep: NWTPH-HCID (<u>Soil)</u>				Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 23D0071 A3C1137-01	Liquid	NWTPH-HCID	03/29/23 10:00	04/03/23 16:52	0.52g/10mL	1g/10mL	1.92				
Polychlorinated Biphenvls by EPA 8082A											
Prep: EPA 3546				,	Sample	Default	RL Pren				
Lab Number	Matrix	Method	Sampled	Prenared	Initial/Final	Initial/Final	Factor				
Batch: 23D0145	mann	memou	Sampled	Tiepared							
A3C1137-02	Solid	EPA 8082A	03/29/23 10:30	04/05/23 09:49	2.63g/5mL	2g/5mL	0.76				
A3C1137-03	Solid	EPA 8082A	03/29/23 10:40	04/05/23 09:49	2.17g/5mL	2g/5mL	0.92				
Batch: 23D0198											
A3C1137-01	Liquid	EPA 8082A	03/29/23 10:00	04/06/23 09:43	0.26g/5mL	2g/5mL	7.69				
Semivolatile Organic Compounds by EPA 8270E											
<u>Prep: EPA 3546</u>					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 23D0146											
A3C1137-02	Solid	EPA 8270E	03/29/23 10:30	04/05/23 09:55	15.36g/50mL	15g/2mL	24.40				
A3C1137-03	Solid	EPA 8270E	03/29/23 10:40	04/05/23 09:55	5.06g/50mL	15g/2mL	74.10				
Prep: EPA 3580A					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
<u>Batch: 23D0179</u> A3C1137-01	Liquid	EPA 8270E	03/29/23 10:00	04/05/23 14:55	0.14g/5mL	1g/5mL	7.14				
Total Metals by EPA 6020B (ICPMS)											
<u>Prep: EPA 3051A</u>					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 23D0013			P***								
A3C1137-01	Liquid	EPA 6020B	03/29/23 10:00	04/03/23 07:25	0.103g/50mL	0.5g/50mL	4.85				
Batch: 23D0210											
A3C1137-03	Solid	EPA 6020B	03/29/23 10:40	04/06/23 11:50	0.455g/50mL	0.5g/50mL	1.10				
A3C1137-03RE1	Solid	EPA 6020B	03/29/23 10:40	04/06/23 11:50	0.455g/50mL	0.5g/50mL	1.10				

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	<u>Report ID:</u>
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

SAMPLE PREPARATION INFORMATION

TCLP Metals by EPA 6020B (ICPMS)							
Prep: EPA 1311/3015A Sample Default RL Prep							RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23D0208							
A3C1137-02	Solid	1311/6020B	03/29/23 10:30	04/06/23 11:36	10mL/50mL	10mL/50mL	1.00
Batch: 23D0209							
A3C1137-03	Solid	1311/6020B	03/29/23 10:40	04/06/23 11:36	10mL/50mL	10mL/50mL	1.00
		[TCLP Extraction by E	PA 1311			
Prep: EPA 1311 (TCLI	<u>P)</u>				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23D0150							
A3C1137-02	Solid	EPA 1311	03/29/23 10:30	04/05/23 14:10	50g/1000g	100g/2000g	NA
Batch: 23D0162							
4261127.02	0-1:1	EDA 1211	02/20/22 10:40	04/05/22 14.10	$10 \approx 200 \approx$	100~/2000~	NIA

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: <u>Maul Foster Alongi</u> Project Number: **189690**

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- **B** Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- B-02 Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- **E** Estimated Value. The result is above the calibration range of the instrument.
- F-11 The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-17 RPD between original and duplicate sample is outside of established control limits.
- Q-18 Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-24 The RPD for this spike and spike duplicate is above established control limits. Recoveries for both the spike and spike duplicate are within control limits.
- Q-29 Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-52 Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-65 Spike recovery is estimated due to the high analyte concentration of the source sample.
- **R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- **R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-01 Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- **S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23D0150.
- **TCLPa** Limited sample volume. Leachate was prepared using less than the specified amount of sample per EPA 1311 or 1312. For consistency in leaching, the standard 20x ratio of sample to leachate fluid was maintained. Results may not meet regulatory requirements.
- TCLPb This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23D0162.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project:Maul Foster AlongiProject Number:189690Project Manager:Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

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ND G

Portland, OR 97217

Project: Maul Foster Alongi

Project Number: 189690

Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET	Analyte DETECTED at or above the detection or reporting limit.
ND	Analyte NOT DETECTED at or above the detection or reporting limit.
NR	Result Not Reported
RPD	Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- <u>" dry"</u> Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "___ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- "--- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- "*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL). -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier. -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy. For further details, please request a copy of this document.

Apex Laboratories



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NRC

6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi

Project Number: 189690 Project Manager: Jerry Wade <u>Report ID:</u> A3C1137 - 04 20 23 1304

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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<u>NRC</u> 6211 N Ensign St Portland, OR 97217 Project: Maul Foster Alongi Project Number: 189690 Project Manager: Jerry Wade

<u>Report ID:</u> A3C1137 - 04 20 23 1304

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex	Laboratories	

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

<u>NRC</u> 6211 N Ensign St Portland, OR 9721	Project: Maul Foster Alongi Project Number: 189690 7 Project Manager: Jerry Wade	<u>Report ID:</u> A3C1137 - 04 20 23 1304
	APEX LABS COOLER RECEIPT FORM Client: $\bigcup S E (0 L 0 B Y)$ Element WO#: $A3 (IIS7-$ Project/Project #: $\bigwedge A \downarrow L E D STEE A L D N G [189 & 90 $ Delivery Info: Date/time received: $\Im [3D[Z3] @ 1540 $ By: SAT Deliverd by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Cooler Inspection Date/time inspected: $\Im [3b[Z3] @ 173 5 $ By: SAT Cooler Inspection Date/time inspected: $\Im [3b[Z3] @ 173 5 $ By: SAT Chain of Custody included? Yes X No	
Ē	Labeled by: Witness: Cooler Inspected by:	Y-003 R-00 -

Apex Laboratories

SUBCONTRACT ORDER

Apex Laboratories A3C1137

AVIC 3/31/23

SENDING LABORATORY:

Apex Laboratories 6700 S.W. Sandburg Street Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 336-0745 Project Manager: Darwin Thomas

RECEIVING LABORATORY:

Atlas Laboratories, Inc 14795 SW 72nd Ave - Suite B Portland, OR 97224 Phone :(503) 430-5290 Fax: -1

Sample Name: Tank 2-T			Sampled: 03/29/23 10:30	(A3C1137-02)
Analysis	Due	Expires	Comments	
Asbestos (Sub) Containers Supplied: (A)8 oz Glass Jar	04/06/23 17:00	04/12/23 10:30		
Sample Name: Tank 0-T			Sampled: 03/29/23 10:40	(A3C1137-03)
Analysis	Due	Expires	Comments	
Asbestos (Sub) Containers Supplied: (A)8 oz Glass Jar	04/06/23 17:00	04/12/23 10:40		

5-day TAT

3/31/23 1211 23 Released By Date Received By 4-7-2

Released By

Date

Received By

Date



Batch # 2022 * 69101

Analysis Date *

Name / Company * Apex Laboratory

Project Name

Project # A3C1137

2023-03-31

PO #

Analyst * Jason Elbon

Turnaround Time * 5-Day Project Location * 6700 SW Sandburg St. Tigard, OR 97233

Asbestos Analysis of Bulk Material by Polarized Light Microscopy

Sample*	Layer*	Description*	Non Asbestos*	Asbestos Type*	Asbestos %*
1	1	Tank Debris (Brown / Gold) - Tank 2-T	Cellulose / Fiberglass	None Present	N/D
2	1	Tank Debris (Brown / Gold) - Tank 0-T	Cellulose / Fiberglass	None Present	N/D

To Be Filled by the Technician

Technician *



Atlas Laboratories maintains liability to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full without written permission by Atlas. Atlas bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST, NIOSH or any other agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore Atlas recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Transmission Electron Microscopy asbestos identification and lead paint analysis will be available and performed by laboratories by proxy. Original analysis documents are available upon request of the client.