

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 • www.midwestlabs.com

Lab # 8846793	Repor	t of Analys	is	Report Numb	per: 21-012-4020
Account:	DOUG BULLOCK	<			
27791	CITY OF RICHLA	ND		1 the	
	PO BOX 190			1Con	755
	RICHLAND WA 9	9352		Robe	ert Ferris
				Accour	nt Manager
Date Sampled:	2020-12-29			402-8	329-9871
Date Received:	2020-12-30			COMPOST ANA	ALYSIS
Sample ID:	FINISHED COMF	POST SCREE	NED		
					Total content,
			Analysis	Analysis	lbs per ton
			(as rec'd)	(dry weight)	(as rec'd)
NUTRIENTS					
Nitrogen					
Total Nitroge		%	1.84	2.50	36.8
Organic Nitro		%	1.62	2.20	32.3
Ammonium N	Nitrogen	%	0.205	0.279	4.1
Nitrate Nitrog	gen	%	0.02	0.03	0.4
Major and Secor	ndary Nutrients				
Phosphorus		%	0.46	0.63	9.2
Phosphorus	as P2O5	%	1.05	1.43	21.0
Potassium		%	0.82	1.12	16.4
Potassium as	s K2O	%	0.99	1.35	19.8
Sulfur		%	0.24	0.33	4.8
Calcium		%	1.98	2.69	39.6
Magnesium		%	0.43	0.59	8.6
Sodium		%	0.090	0.122	1.8
Micronutrients					
Iron		ppm	11100	15106	22.2
Manganese		ppm	227	309	0.5
Boron			< 100		
OTHER PROPERTIES					]
Moisture		%	26.52		
Total Solids		%	73.48		1469.6
Organic N	Aatter	%	36.70	49.95	734.0
Ash		%	36.20	49.27	724.0
Total Carbon		%	20.02	27.25	
Chloride		%	0.15	0.20	
рН			7.2		
-	1:5 (Soluble Salts)	mS/cm	4.77		
	()				



**PAGE 2/9** 

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 • www.midwestlabs.com

ab #	8846793		ological & Pl	hysical Pro	operties	Report Num	ber: 21-012-4020		
	Account:	DOUC	BULLOCK				~ /		
	27791 CITY OF RICHLAND					1/11	Fos		
		PO BOX 190				1000	/ -		
		RICHLAND WA 99352				Robert Ferris			
					Client Servi	ce Representative			
Da	ate Sampled:	2020-	12-29			402	-829-9871		
Da	te Received:	2020-	12-30			COMPOST AN	IALYSIS		
	Sample ID:	FINIS	HED COMPO	ST SCREE	NED				
			Analysis	Analysis					
			(as rec'd)	(dry weight)	Units	Detection Limit	Method		
Biolog	gical Properties								
	Germination		100		%	1	TMECC 05.05A		
	Germination Vigo	or	87.8		%	1	TMECC 05.05A		
	CO <sub>2</sub> OM Evolutio	n	0.75		mgCO <sub>2</sub> -C/gO	M/day 0.01	TMECC 05.08B		
	CO2 Solids Evolu	ition	1.24		mgCO <sub>2</sub> -C/gT	S/day 0.01	TMECC 05.08B		
	Salmonella			< 0.26	mpn/4g	0.26	EPA 1682		
	Stability Rating		Stable		N/A	N/A	TMECC 05.08B		
			Stable		N/A	N/A	TMECC 05.08B		
Physic	cal Properties								
Physic	cal Properties Bulk Density (Loo	,	725		N/A Ibs/cu yard	1	WT/VOL		
Physic	cal Properties Bulk Density (Loo Bulk Density (Pad	,	725 977		lbs/cu yard	1	WT/VOL WT/VOL		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics	cked)	725		Ibs/cu yard Ibs/cu yard %	1	WT/VOL WT/VOL Microscopic		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics Glass Fragments	cked)	725 977		lbs/cu yard lbs/cu yard %	1 1 0.25 0.25	WT/VOL WT/VOL Microscopic Microscopic		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics Glass Fragments Hard Plastics	cked)	725 977 n.d. n.d. n.d.		lbs/cu yard lbs/cu yard % % %	1 1 0.25 0.25 0.25 0.25	WT/VOL WT/VOL Microscopic Microscopic Microscopic		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics Glass Fragments Hard Plastics Metal Fragment	cked)	725 977 n.d. n.d. n.d. n.d. n.d.		lbs/cu yard lbs/cu yard %	1 1 0.25 0.25	WT/VOL WT/VOL Microscopic Microscopic Microscopic Microscopic		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics Glass Fragments Hard Plastics Metal Fragment Sharps	cked)	725 977 n.d. n.d. n.d.		lbs/cu yard lbs/cu yard % % %	1 1 0.25 0.25 0.25 0.25 0.25 	WT/VOL WT/VOL Microscopic Microscopic Microscopic Microscopic Microscopic		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics Glass Fragments Hard Plastics Metal Fragment Sharps Max. Particle Ler	cked)	725 977 n.d. n.d. n.d. n.d. n.d.	1.0	Ibs/cu yard Ibs/cu yard % % % % % inches	1 1 0.25 0.25 0.25 0.25 0.25	WT/VOL WT/VOL Microscopic Microscopic Microscopic Microscopic Microscopic TMECC Sieve		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics Glass Fragments Hard Plastics Metal Fragment Sharps Max. Particle Ler Sieve % Passing	cked)	725 977 n.d. n.d. n.d. n.d. n.d.	100	Ibs/cu yard Ibs/cu yard % % % % %  inches %	1 1 0.25 0.25 0.25 0.25 0.25 	WT/VOL WT/VOL Microscopic Microscopic Microscopic Microscopic Microscopic		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics Glass Fragments Hard Plastics Metal Fragment Sharps Max. Particle Ler	cked)	725 977 n.d. n.d. n.d. n.d. n.d.		Ibs/cu yard Ibs/cu yard % % % % % inches	1 1 0.25 0.25 0.25 0.25 0.25  N/A	WT/VOL WT/VOL Microscopic Microscopic Microscopic Microscopic Microscopic TMECC Sieve		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics Glass Fragments Hard Plastics Metal Fragment Sharps Max. Particle Ler Sieve % Passing	cked) agth 3" 2"	725 977 n.d. n.d. n.d. n.d. n.d.	100	Ibs/cu yard Ibs/cu yard % % % % %  inches %	1 1 0.25 0.25 0.25 0.25 0.25  N/A 0.01	WT/VOL WT/VOL Microscopic Microscopic Microscopic Microscopic Microscopic TMECC Sieve TMECC Sieve		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics Glass Fragments Hard Plastics Metal Fragment Sharps Max. Particle Ler Sieve % Passing Sieve % Passing	cked) a ngth 3" 2" 1.5"	725 977 n.d. n.d. n.d. n.d. n.d.	<mark>100</mark> 100	Ibs/cu yard           Ibs/cu yard           0%           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %           %	1 1 0.25 0.25 0.25 0.25  N/A 0.01 0.01	WT/VOL WT/VOL Microscopic Microscopic Microscopic Microscopic Microscopic TMECC Sieve TMECC Sieve		
Physic	cal Properties Bulk Density (Loc Bulk Density (Par Film Plastics Glass Fragments Hard Plastics Metal Fragment Sharps Max. Particle Ler Sieve % Passing Sieve % Passing Sieve % Passing	cked) agth 3" 2" 1.5" 1"	725 977 n.d. n.d. n.d. n.d. n.d.	100 100 100	Ibs/cu yard           Ibs/cu yard           0%           %	1 1 0.25 0.21 0.01 0.01 0.01 0.01 0.01 0.01	WT/VOL WT/VOL Microscopic Microscopic Microscopic Microscopic Microscopic TMECC Sieve TMECC Sieve TMECC Sieve		
Physic	cal Properties Bulk Density (Loo Bulk Density (Pao Film Plastics Glass Fragments Hard Plastics Metal Fragment Sharps Max. Particle Ler Sieve % Passing Sieve % Passing Sieve % Passing	cked) 3 3" 2" 1.5" 1" 3/4"	725 977 n.d. n.d. n.d. n.d. n.d.	100 100 100 100	Ibs/cu yard Ibs/cu yard % % % % inches % % % % %	1 1 0.25 0.25 0.25 0.25 0.25  N/A 0.01 0.01 0.01 0.01	WT/VOL WT/VOL Microscopic Microscopic Microscopic Microscopic Microscopic TMECC Sieve TMECC Sieve TMECC Sieve TMECC Sieve		
Physic	cal Properties Bulk Density (Loc Bulk Density (Pac Film Plastics Glass Fragments Hard Plastics Metal Fragment Sharps Max. Particle Ler Sieve % Passing Sieve % Passing Sieve % Passing Sieve % Passing	cked) agth 3" 2" 1.5" 1" 3/4" 5/8"	725 977 n.d. n.d. n.d. n.d. n.d.	100 100 100 100 100	Ibs/cu yard           Ibs/cu yard           0%           %	1 1 0.25 0.25 0.25 0.25  N/A 0.01 0.01 0.01 0.01 0.01	WT/VOL WT/VOL Microscopic Microscopic Microscopic Microscopic Microscopic TMECC Sieve TMECC Sieve TMECC Sieve TMECC Sieve TMECC Sieve		

Compost Results Interpretations	Report #:	21-012-4020	
Page 1	DATE RECEIVED:	2020-12-30	
		,	
Organic Matter %			
36.70 As Received	Greater than 20% indicates a desirable range for compo	st on a dry weight basis	i.
49.95 Dry Weight			
Compost is a sign	sificant course of Organia Matter, which is an important cumplic	r of corbon Organia M	ottor
Compost is a sign	nificant source of Organic Matter, which is an important supplie	r or carbon. Organic Ma	aller

Compost is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter improves soil and plant efficiency by improving soil physical properties, providing a source of energy to beneficial organisms, and enhancing the reservoir of soil nutrients.

C/N	Ratio	
	10.9:1	

20-30 indicates an ideal range for the initial compost process. 10-20 indicates an ideal range for a finished compost.

All organic matter is made up of substantial amounts of carbon with lesser amounts of nitrogen. The balance of these two elements is called the Carbon/Nitrogen Ratio. For the best performance, the compost pile requires the correct proportion of carbon for energy and nitrogen for protein production. If the C:N ratio is too high (excess carbon) decomposition slows down. If the C:N ratio is too low (excess Nitrogen) the compost pile could be difficult to manage.

Moisture % 26.	
	Moisture Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture present affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A desirable moisture content of finished compost will range between 40 to 50%.

### **PAGE 4/9**

Compost Results Interpretations	Report #:	21-012-4020
Page 2	DATE RECEIVED:	2020-12-30

Conductivity or Soluble Salts measures the conductance of electrical current in a liquid compost slurry. Excessive soluble salt content in a compost can prevent or delay seed germination and proper root growth. Conductivity analysis is done on a 1:5 basis.

Conductivity 1:5	
Conductivity Level	Interpretation
Greater than 10	Very High nutrient content. Use for Ag Applications
5 - 10	High nutrient content. Use for Ag Applications
3 - 5	Higher than desirable for salt sensitive plants, some loss of vigor
0.6 - 3	Desirable range for most plants
0.3 - 0.6	Ideal range for greenhouse growth media
0.0 - 0.3	Very Low: Indicates very low nutrient status: plants may show deficiencies.

## **PAGE 5/9**

Compost Results InterpretationsReport #:21-012-4020Page 3DATE RECEIVED:2020-12-30							
pH Value							
7.2 0 to 14 scale with 6 to 8 as normal pH levels for compost							
A pH in the 6 to 8 pH range indicates a more mature compost							
pH measures the acidity or alkalinity of the compost, and is a measurement of the	e hydrogen ion activity of a soil or compost on a						
logarithmic scale. The pH scale ranges from 0 to 14 and 7 indicate	logarithmic scale. The pH scale ranges from 0 to 14 and 7 indicates a neutral pH. Growing media with a higher pH or pH						
greater than 7 can benefit from a compost that has a more acidic p	H or pH below 7. This type of application will pos	ssibly					
lower the soil pH making the soil more conducive to plants that thri	ve in a more acidic soil condition.						

Nutrient Index >1	,			The Nutrie	nt Index nor	mally runs	between 1 a	and 10.			
The Nutrient	The Nutrient Index is obtained by dividing the total nutrients (N,P,K) by the amount of salt (Sodium and Chloride). The higher the Nutrient Index the less chance of having a toxic buildup of Sodium (salt) in the soil.										
	AG INDEX CHART										
	salt injury possible			t drainage cha lity and low sa		you		oils with poor d ality, or high s		water	for all soils
			3	4	5	6	7	8	9	10	> 10

Nutrients (N	I+P205+K20)	
5.28	Average Nutrient Content Dry Weight	<2 = Low, >5 = High
2-1-1	Rating As Received	
	and the information is similar to that found in	t data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has Most compost tests will have a average nutrient level (N+P+K) of < 5%.



CITY OF RICHLAND DOUG BULLOCK PO BOX 190 RICHLAND WA 99352





**REPORT OF ANALYSIS** For: (27791) CITY OF RICHLAND COMPOST ANALYSIS

www.midwestlabs.com

Level For	und		Reporting		Analyst-	Verified-
As Received	Dry Weight	Units	Limit	Method	Date	Date
Lab Num	ber: 88467		e Sampled	: 2020-12-29		
n.d.	n.d.	mg/kg	0.50	EPA 6010	ras7-2021/01/04	trh1-2021/01/06
13.4	18.3	mg/kg	1.00	EPA 6010	ras7-2021/01/04	trh1-2021/01/06
0.08	0.11	mg/kg	0.05	EPA 7471	pjd8-2021/01/06	trh1-2021/01/06
13.0	17.7	mg/kg	5.0	EPA 6010	ras7-2021/01/04	trh1-2021/01/06
3.0	4.1	mg/kg	1.0	EPA 6010	ras7-2021/01/04	trh1-2021/01/06
12.6	17.1	mg/kg	1.0	EPA 6010	ras7-2021/01/04	trh1-2021/01/06
n.d.	n.d.	mg/kg	10.0	EPA 6010	ras7-2021/01/05	trh1-2021/01/06
189.3	257.6	mg/kg	2.0	EPA 6010	ras7-2021/01/04	trh1-2021/01/06
91.1	124	mg/kg	<u>د</u>	EPA 6010	ras7-2021/01/04	trh1-2021/01/06
4.04	5.50	mg/kg	0.5	EPA 6020	ras7-2021/01/05	trh1-2021/01/06
	Level Fo As Received I Lab Nurr n.d. 13.0 13.0 3.0 12.6 n.d. 189.3 91.1 4.04	Level Found As Received Dry Weight Lab Number: <b>88467</b> n.d. n.d. 13.4 18.3 0.08 0.11 13.0 17.7 3.0 4.1 12.6 17.1 n.d. n.d. 189.3 257.6 91.1 124 4.04 5.50	Units 7793 mg/k mg/k mg/k mg/k mg/k mg/k	<b>Units</b> 7793 mg/k mg/k mg/k mg/k mg/k mg/k	Reporting           Units         Limit         I           rg/g         Date         Sampled:         20           mg/kg         0.50         I         I           mg/kg         0.050         I         I           mg/kg         0.05         I         I           mg/kg         0.05         I         I           mg/kg         1.00         I         I           mg/kg         1.0         I         I           mg/kg         1.0         I         I           mg/kg         10.0         I         I           mg/kg         0.5         I         I	Reporting         Method         Analyst- Date           Vnits         Limit         Method         Date           Total         Sampled:         2020-12-29         EPA 6010         ras7-2021/01/04           mg/kg         0.50         EPA 6010         ras7-2021/01/04           mg/kg         0.05         EPA 7471         pjd8-2021/01/04           mg/kg         0.05         EPA 6010         ras7-2021/01/04           mg/kg         1.0         EPA 6010         ras7-2021/01/04           mg/kg         10.0         EPA 6010         ras7-2021/01/04           mg/kg         0.05         EPA 6010         ras7-2021/01/04           mg/kg         0.05         EPA 6010         ras7-2021/01/04           mg/kg         0.05         EPA 6010         ras7-2021/01/04           mg/kg         0.5         EPA 6010         ras7-2021/01/04           mg/kg         0.5         EPA 6010         ras7-2021/01/04           mg/kg         0.5         EPA 6010

EPA 1682 holding time of < 6 hours from sampling to laboratory set up of samples for biosolids and compost has been exceeded. If a level of Salmonella was reported, the value would be considered an estimate. Individual states enforce different holding times for compost or biosolids so please contact the regulatory body in your state for their requirements. n.d. = not detected , ppm = parts per million, ppm = mg/kg

For questions please contact: Account Manager Rob Ferris

Rob Ferrs Account Manager rferris@midwestlabs.com (402)829-9871 The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.



USCOMPOSTING



# **PAGE 7/9**

#### **OFFICIAL Seal of Testing Assurance Compost Sample Chain of Custody Form**

STA Laboratory: Midwest Laboratorics Tel: (402) 334 - 7770 Address: 13611 B St. FAX: (402) 334 - 9121 Email:	LABORATORY USE ONLY Storage Locations           Freezer         Cold Room         Storage Shelf
City, State Zip code: Omaha, Nebraska 68144-3693	Sample Condition:
	Temperature: Malodor: Moisture:
Client/Reporting Company: City of Richland Tel: (509) 942 - 7481	Sample Type: O POINT O COMPOSITE O STRATIFIED O INTERVAL
Contact Name: Stove Rrewer FAX: (609) 942 - 774	P O Number
Billing Address: 675 Swift Blud. Email: SBREWER O CT. Richland.	
City, State Zip code: Richland, Wa 99353	
	SELECTION OF ANALYSIS. Refer to http://www.tmecc.org/cap/methods.html for details. STA Suite; State DOT Tests (indicate State); A, B, C – Specify other tests in fields A through C. (e o
City, State Zip code: 0:	STA Suite; State DOT Tests (indicate State); A, B, C – Specify other tests in fields A through C, (e.g., tests required for regulated samples, etc.). NOTE 1 STA analytical results via the STA Compost Technical Data Sheet and this Chain of Custody form are submitted to STA program management.
Nome or Source of Sample(s): City of Richland Compart Fraility	A B C
Name of Person(s), Sample Collector(s): ODUG BULLOCK	
Client Sample ID and Special Instructions 1. List Feedstocks 2. Check all that apply 3. List % by volume (Ontional) Collection Date/Time by Matrix Ope	omposting Shipping Indicate Compost Analysis LAB USE ONLY Job Number &
Green waste Carcass Date: /2.34.2/) Compost @	Windraw O
I - T A T I 446 A Manure Fish Waste	Windrow O Static pile & Amblent O
COMPOST Food Grease, Fats Time: GRAP Mulch O Biosolids	
SCREENED MSW Initials: DB	
OOO	
INFORM THE STA LABORATORY AND SPECIFY THE REQUIRED LABORATORY TESTS WHEN SUBMITTE	NG REGULATED COMPOST SAMPLES (please use spaces A, B and C provided above).
PLEASE PROVIDE SPECIFIC FEEDSTOCK AND OPERATIONAL DETAIL IN THE SPACE PROVIDED. YOUR VOLUNTEERED INFORMATION PROVIDES USCC STANDARDS AND PRACTICES COMMITTEE WITH CRUTIAL DATA NEED	ED TO DETTED UNDEDDTAND THE DOWN OR WACH & ORE
PLEAVE SALMONELLA ONLY (NO FECA,	L COLZFORM) THANK YOU
Releasing Date 26 dy Time Destrict	
Releasing Signature 1 Accept Date 29 <sup>44</sup> Releasing Releasing	DW 7.6 Date 1430 Time
Signature 2 Signature 2 Signature 2	
Releasing Date Time Receiving Signature 3 Signature 3	Date Time
Releasing Date Time Receiving Signature 4 Signature 4	Date Time

# Regulatory





This sheet **MUST** be filled out before samples can be processed. To ensure that holding times are met, it is your responsibility that a completed form comes attached to the Chain of Custody. Samples must be received on ice.

Is this sample for regulatory/permit reporting?

9? 📈 Yes 🗌 No

What city/state was your sample collected in?

RICHEAND, WACH

What agency/state are you reporting?

What type of sample? (Circle One)

US COMPOSTENIG COUNCEL

Drinking WaterGround WaterWastewaterFor human consumption,<br/>30 hr hold timeHazardous WasteUSTSoilid WasteHazardous WasteUST

Storm Water

**Process Water** 

Livestock

COMPOST

SEE REVERSE SIDE FOR SAMPLING INSTRUCTIONS

RC FORM 14-3 Effective 01.30.19

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

13611 B Street, Omaha, Nebraska 68144 | (402) 334.7770 | fax (402) 334.9121 | midwestlabs.com

Sample Acceptance Checklist Document Number: RC CHKLIST 001 Revision No.: 4 Effective Date: 1/31/2019 Page 1 of 1

- میں - میں				<del></del>				
Lab Number:								
Thermometer Used:			Cooler Intact: Received on Ice: Hand Delivered:			on Ice:	ΪZΥ	es □ No es □ No es ⊿ No
		<del></del> ;-				<u>.</u>		
Date & Initials of person accepting samples:	- <u></u>						Comments	
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		· ·	
Chain of Custody present?	/			No		N/A		
Sample ID(s):	7			No		N/A		
Sample Location(s):	17	Yes		No		N/A ·	·	
Client contact:		Yes		No		N/A	<u> </u>	
Analysis Requested:		Yes		No		N/A		
Date & Time of collection:		Yes		No		N/A		
Sampler name on COC?		Yes		No		N/A	<u> </u>	
Chain of custody relinquished with signature?	- 5	Yes		Nó		N/A		
Chain of custody complete?		Yes		No		N/A	· · · · · · · · · · · · · · · · · · · ·	
Sample labels match COC?		Yes		No		N/A		
Written in indelible ink?		Yes		No		N/A		
Labels indicate proper preservation?		Yes		No		•N/A	· · · · · · · · · · · · · · · · · · ·	
Samples arrived within hold time?		Yes		No	ļ	N/A.		
Samples arrived within correct temperature?		Yes		. No	1	N/A		
Sufficient volume?		Yes		No		<u>N/A</u>		
Appropriate containers used?	Ø	Yes		No		N/A		
Filtered volume received for dissolved tests?		Yes		No	+	<u>N/A</u>	· · · · · · · · · · · · · · · · · · ·	
Headspace in VOA vials?		Yes		No		<u>N/A</u>		
Trip Blank present?		Yes	Ø	No		N/A		
			. 1					
Client Notification/Resolution: Date/Ti	ime Co	ontac	ted	·				
Person Contacted:		Co	onta	cted	By:			
•					-			
Comments/Resolution:				_				
· · · · · · · · · · · · · · · · · · ·						_		
ι						· • • •		
· · ·			л,					
								·
	<u> </u>		_					
· · · ·								

<u>/\ Midwest</u> \/ Laboratories°

- 5<sup>1</sup>

8846793-793 Page: 3/3 Ashiya Himan 2020 12 30 10:35