Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	2			Date1	Date11/01/2024	
•							
Sample	Location mbh_oct_2024	1355					
Sample	Identification						
Lab Nu	mber	0890-1					
Total Ex	xchange Capacity (ME/100 g)	17.86					
pH (H <sub>2</sub>	O 1:1)	5.3					
Organic	Matter (360°C LOI) %	5.82					
Estimate	ed Nitrogen Release lb/A	104					
	SOLUBLE SULFUR* ppm	5					
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	206					
ANIONS	$\begin{array}{c} \square \\ \square \\ \square \\ \square \\ \square \\ \hline \end{array}$ BRAY II	45 293		+			
A	⊕ ppm of P	64					
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>						
	Ppin or 1	0.060					
ш	CALCIUM* $\frac{\text{lb/A}}{\text{ppm}}$ —	$\frac{2868}{1434}$		<del> </del>			
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	548					
CATIONS	ppm —	$\frac{1}{274}$		+ +			
HAN	POTASSIUM* lb/A	468					
5 3	ppm	234					
	SODIUM* <u>lb/A</u>	$\phantom{00000000000000000000000000000000000$					
	ppm		IONI DEDCE	NIT			
		ASE SATURAT	ION PERCE	IN I			
	Calcium %	40.15					
	Magnesium % Potassium %	12.78					
	Sodium %	3.36 0.93					
	Other Bases %	6.80					
	Hydrogen %	36.00					
		EXTRACTAB	LE MINORS	}			
	Boron* (ppm)	0.38					
	Iron* (ppm)	335					
	Manganese* (ppm)	60					
	Copper* (ppm)	0.95					
	Zinc* (ppm)	2.85					
	Aluminum* (ppm) Soluble Salts (mmhos/cm)	773					
ER	Chlorides (ppm)						
OTHER TESTS	emonaco (ppm)						
0 1							
	-	-					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	2			Date1:	1/01/2024
Sample	Location mbh_oct_2025	1357				
Sample	Identification					
Lab Nu	mber	0891-1				
Total Ex	xchange Capacity (ME/100 g)	15.54				
pH (H 2	O 1:1)	5.8				
Organic	Matter (360°C LOI) %	9.72				
Estimate	ed Nitrogen Release lb/A	124				
	SOLUBLE SULFUR* ppm	5				
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	440				
ANIONS	$\begin{array}{c} \square \\ \square $	96 623				
A	⊕ ppm of P	136				
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>					
	Ppin or 1	2500				
ш	CALCIUM* $\frac{\text{lb/A}}{\text{ppm}}$ —	$\frac{3592}{1796}$		+ +		
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	404				
CATIONS	ppm —	$-\frac{101}{202}$		++		
IAN TIC	POTASSIUM* lb/A	498				
5 3	ppm	249				
	SODIUM* <u>lb/A</u>	$-\frac{34}{17}$		+ +		
	ppm		TON DEDGE	N ITE		
		ASE SATURAT	TON PERCE	NT I		
	Calcium %	57.79				
	Magnesium % Potassium %	10.83				
	Sodium %	4.11 0.48				
	Other Bases %	5.80				
	Hydrogen %	21.00				
		EXTRACTAB	LE MINORS			
	Boron* (ppm)	0.41				
	Iron* (ppm)	295				
	Manganese* (ppm)	53				-
	Copper* (ppm)	0.74				
	Zinc* (ppm)	1.64		1		
	Aluminum* (ppm)	1014		1		
S	Soluble Salts (mmhos/cm) Chlorides (ppm)	<del>                                     </del>		1		
OTHER TESTS	отопась (ррш)			1		
0 = 1				+		

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	La, City	Santa Bar	bara	State C	<i>P</i>
Indonon	ndent Consultant Home Office	2			Date 11	1/01/2024
muepen					_ Date	
Sample	Location mbh_oct_2026	1359				
Sample	Identification					
Lab Nu	mber	0892-1				
Total E	xchange Capacity (ME/100 g)	24.09				
pH (H 2	O 1:1)	5.7				
Organic	Matter (360°C LOI) %	9.24				
Estimate	ed Nitrogen Release lb/A	121				
	SOLUBLE SULFUR* ppm	5				
S	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	380				
ANIONS	$ \begin{array}{c c} \overrightarrow{BRAY II} & ppm of P \\ \hline BRAY II & lb/A P as P_2O_5 \\ \end{array} $	83 417				
AN	$\frac{\Omega}{CO}$ ppm of P	91				
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>					
	□ ppm of P  CALCIUM* lb/A	5134				
当	ppm —	$\frac{3131}{2567}$	l	— <del>- +</del>		
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	768				
CATIONS	POTASSIUM* lb/A	3 <u>84</u> 582				
CAT	ppm - ib/A	$\frac{1}{291}$		— <del> </del>		
EX	SODIUM* lb/A	38				
	ppm	19				
		BASE SATURAT	TION PERCENT	[		
	Caldium %	53.28				
	Magnesium % Potassium %	13.28				
	Sodium %	3.10 0.34				
	Other Bases %	6.00				
	Hydrogen %	24.00				
		EXTRACTAE	BLE MINORS			
	Boron* (ppm)	0.42				
-	Iron* (ppm)	276				
	Manganese* (ppm)	55				
	Copper* (ppm) Zinc* (ppm)	0.78 2.73				
	Aluminum* (ppm)	795				
~	Soluble Salts (mmhos/cm)	. , , ,				
HE STS	Chlorides (ppm)					
OTHER TESTS						
		<u> </u>				

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	<u> </u>			Date 11/01/2024		
•							
Sample	Location mbb agt 2027						
	DII_0CC_2027	1361					
Sample	Identification						
Lab Nu	mber	0893-1					
Total Ex	xchange Capacity (ME/100 g)	15.12					
pH (H 2	O 1:1)	5.7					
Organic	Matter (360°C LOI) %	6.60					
Estimate	ed Nitrogen Release lb/A	108					
	SOLUBLE SULFUR* ppm	5					
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	357					
ANIONS	$ \begin{array}{ccc}                                   $	78 440					
A	⊕ ppm of P	96					
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>						
	Ppin or 1						
111	CALCIUM* lb/A	$\frac{3250}{1605}$			_	_	
BLI	ppm MAGNESIUM* lb/A	16 <u>25</u> 412					
GA	ppm III/ A	$\frac{1}{206}$		<del>+</del>	-+	-	
CATIONS	POTASSIUM* lb/A	520					
EXCHANGABLE CATIONS	ppm	260					
E	SODIUM* <u>lb/A</u>	$\frac{34}{17}$			_	_	
	ppm	17					
		ASE SATURAT	ION PERC	ENT			
	Caldium %	53.74					
	Magnesium % Potassium %	11.35					
	Sodium %	4.41 0.49					
	Other Bases %	6.00					
	Hydrogen %	24.00					
		EXTRACTAB	LE MINOF	RS			
	Boron* (ppm)	0.41					
-	Iron* (ppm)	268					
	Manganese* (ppm)	129					
	Copper* (ppm)	0.69					
	Zinc* (ppm)	2.17					
	Aluminum* (ppm) Soluble Salts (mmhos/cm)	903				<del>                                     </del>	
ER	Chlorides (ppm)						
OTHER TESTS	emenato (ppm)						
01							
	-	•		8		-	

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	2			Date	Date11/01/2024	
Sample	Location mbh_oct_2028	1363					
Sample	Identification						
Lab Nu	mber	0894-1					
Total Ex	xchange Capacity (ME/100 g)	13.00					
pH (H <sub>2</sub>	O 1:1)	5.7					
Organic	Matter (360°C LOI) %	6.90					
Estimate	ed Nitrogen Release lb/A	110					
	SOLUBLE SULFUR* ppm	5					
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	467 102					
ANIONS	$\begin{array}{c} \square \\ \square $	609					
A	⊕ ppm of P	133					
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>						
	□ ppm of P  CALCIUM* lb/A	2714					
щ	CALCIUM" ID/A ppm	$\frac{2714}{1357}$		+	_	_	
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	392					
797 NO	ppm —	196		<u> </u>	_		
CATIONS	POTASSIUM* <u>lb/A</u>	482					
2 2	ppm	241					
Û	SODIUM* lb/A	${}$ ${}$ $\frac{30}{15}$		<del></del>	_	_	
	ppm	ASE SATURAT	ION PFRO	FNT			
	Calcium %	1	TOTAT LIVE		Т		
	Magnesium %	52.19					
	Potassium %	12.56 4.75					
	Sodium %	0.50					
	Other Bases %	6.00					
	Hydrogen %	24.00					
		EXTRACTAB	LE MINOI	RS			
	Boron* (ppm)	0.39					
	Iron* (ppm)	316					
	Manganese* (ppm)	84					
	Copper* (ppm)	0.66					
	Zinc* (ppm) Aluminum* (ppm)	1.32 1137					
	Soluble Salts (mmhos/cm)	113/				<del></del>	
ER -S	Chlorides (ppm)						
OTHER TESTS	VI /						
0							
		-					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	<u> </u>			Date 1	1/01/2024
•						
Sample	Location why age 2020					
	IIDI1_000_2029	1365				
Sample	Identification					
Lab Nu	mber	0895-1				
Total Ex	xchange Capacity (ME/100 g)	16.42				
pH (H 2	O 1:1)	5.2				
Organic	Matter (360°C LOI) %	14.10				
Estimate	ed Nitrogen Release lb/A	127				
	SOLUBLE SULFUR* ppm	7				
S	MEHLICH III lb/A P as P₂O₅ ppm of P	394				
ANIONS		86 435				
AN	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	435 95				
	OLSEN Ib/A P as P <sub>2</sub> O <sub>5</sub>	73				_
	± ppm of P °					
	CALCIUM* <u>lb/A</u>	2408				
3LE	ppm	1204				
EXCHANGABLE CATIONS	MAGNESIUM* <u>lb/A</u>	$\frac{462}{231}$		<u> </u>	<del>_</del>	
AN I	POTASSIUM* lb/A	644				
CA	ppm	$-\frac{311}{322}$			<del>+</del>	
EX	SODIUM* lb/A	44				
	ppm	22				
	В	ASE SATURAT	TON PERCE	ENT		
	Caldium %	36.66				
	Magnesium %	11.72				
	Potassium %	5.03				
	Sodium % Other Bases %	0.58				
	Hydrogen %	7.00 39.00				
	J 8	EXTRACTAB	LE MINOR	S		
	Boron* (ppm)	0.56				
	Iron* (ppm)	313				
-	Manganese* (ppm)	118				
	Copper* (ppm)	0.53				
	Zinc* (ppm)	2.67				
	Aluminum* (ppm)	1129			1	
ER	Soluble Salts (mmhos/cm) Chlorides (ppm)			_		
OTHER TESTS	стопась (ррш)					
011						
					•	

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	9			Date <u>1</u>	Date11/01/2024	
•							
Sample	Location mbh_oct_2030	1367					
Sample	Identification	1307					
Lab Nu	mber	0896-1					
Total Ex	xchange Capacity (ME/100 g)	19.65					
pH (H <sub>2</sub>	O 1:1)	6.0					
Organic	Matter (360°C LOI) %	11.66					
Estimate	ed Nitrogen Release lb/A	126					
	SOLUBLE SULFUR* ppm	5					
SZ	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	710					
ANIONS		155 939					
A	⊕ ppm of P	205					
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>						
	ppin or r						
111	CALCIUM* lb/A	4926			_		
EXCHANGABLE CATIONS	ppm MAGNESIUM* lb/A	2463 604					
CATIONS	magnesiom ib/ A ppm	$-\frac{604}{302}$		<del></del>	- +		
AN TIC	POTASSIUM* lb/A	568					
CA	ppm	$\frac{1}{284}$		<del></del>	- <del> </del>		
EX	SODIUM* lb/A	36					
	ppm	18					
		ASE SATURAT	TION PERC	ENT	1		
	Calcium %	62.67					
	Magnesium %	12.81					
	Potassium % Sodium %	3.71					
	Other Bases %	0.40					
	Hydrogen %	5.40 15.00					
		EXTRACTAB	BLE MINOF	RS			
	Boron* (ppm)	0.52		T			
	Iron* (ppm)	356					
	Manganese* (ppm)	79					
	Copper* (ppm)	0.49					
	Zinc* (ppm)	1.84					
	Aluminum* (ppm)	966					
24.0	Soluble Salts (mmhos/cm)						
HE STS	Chlorides (ppm)						
OTHER TESTS						_	
						<u> </u>	

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	2			Date1	Date11/01/2024	
•							
Sample	Location mbh_oct_2031	1369					
Sample	Identification						
Lab Nu	mber	0897-1					
Total Ex	xchange Capacity (ME/100 g)	15.93					
pH (H <sub>2</sub>	O 1:1)	5.8					
Organic	Matter (360°C LOI) %	10.17					
Estimate	ed Nitrogen Release lb/A	125					
	SOLUBLE SULFUR* ppm	5					
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	838 183					
ANIONS	$\begin{array}{c} \square \\ \square $	1182					
A	⊕ ppm of P	258					
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>						
	□ ppm of P  CALCIUM* lb/A	3702					
щ	CALCIUM" ID/A ppm	$\frac{3702}{1851}$		<del>                                     </del>	<del> </del>		
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	362					
9 N	ppm	181					
CATIONS	POTASSIUM* <u>lb/A</u>	642					
N N	ppm SODIUM* lb/A	321					
Ш	ppm	$-\frac{34}{17}$		<del> </del>	+ $ -$	<del></del>	
		SASE SATURAT	ION PERCE	INT			
	Calcium %	58.10		T			
	Magnesium %	9.47					
	Potassium %	5.17					
	Sodium %	0.46					
	Other Bases %	5.80					
	Hydrogen %	21.00					
		EXTRACTAB	LE MINORS				
	Boron* (ppm)	0.46					
	Iron* (ppm)	322					
	Manganese* (ppm) Copper* (ppm)	107					
	Zinc* (ppm)	1.52					
	Aluminum* (ppm)	1251					
~	Soluble Salts (mmhos/cm)						
HEI	Chlorides (ppm)						
OTHER TESTS				_			
,	<u> </u>	<u> </u>				<u> </u>	

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa E	Barbara	State	CA
Indepen	dent Consultant Home Office	<b>e</b>			Date _	11/01/2024
Sample 1	Location mbh_oct_2032	1371				
Sample 1	Identification					
Lab Nu	mber	0898-1				
Total Ex	schange Capacity (ME/100 g)	14.66				
pH (H <sub>2</sub>	O 1:1)	5.9				
Organic	Matter (360°C LOI) %	11.53				
Estimate	ed Nitrogen Release lb/A	126				
EXCHANGABLE ANIONS CATIONS		6 147 32 188 41	—————————————————————————————————————	ENT		
	Sodium % Other Bases % Hydrogen %	5.26 0.53 5.60				
	Tryutogen //	18.00 EXTRACTAR	BLE MINOR:	S		
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.41 209 66 0.32 1.82 990				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	9			Date <u>1</u>	1/01/2024
Sample	Location mbh_oct_2033	1373				
Sample	Identification					
Lab Nu	mber	0899-1				
Total Ex	xchange Capacity (ME/100 g)	21.75				
pH (H 2	O 1:1)	5.7				
Organic	Matter (360°C LOI) %	11.51				
Estimate	ed Nitrogen Release lb/A	126				
	SOLUBLE SULFUR* ppm	7				
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	550				
ANIONS	$\begin{array}{c} \square \\ \square $	120 756				
A	⊕ ppm of P	165				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>					
	□ ppm of P  CALCIUM* lb/A	4636				
щ	ppm III/ A	$\frac{4030}{2318}$		+	+	
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	688				
NG ON	ppm	344				
CATIONS	POTASSIUM* lb/A	$-\frac{544}{272}$			· <del> </del>	
$\overset{\circ}{\times}$	ppm SODIUM* lb/A	272 34				
ш	ppm ID/A	$\frac{1}{17}$		<del>                                     </del>	+	
		ASE SATURAT	TION PERC	ENT		
	Caldium %	53.29				
	Magnesium %	13.18				
	Potassium %	3.21				
	Sodium %	0.34				
	Other Bases % Hydrogen %	6.00				
	Trydrogen /o	24.00 EXTRACTAB	I E MINOD	C		
	D **( )		LE MIINOR	<u>ა</u>		
	Boron* (ppm) Iron* (ppm)	0.37 296				
	Manganese* (ppm)	80				
	Copper* (ppm)	0.78				
-	Zinc* (ppm)	1.92				
	Aluminum* (ppm)	1099				
۵,,	Soluble Salts (mmhos/cm)					
THE	Chlorides (ppm)					
OTHER TESTS		<del>                                     </del>				
				-		<u> </u>

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californi	ia, City	Santa E	Barbara	State	CA
Indepen	dent Consultant Home Office	9			Date _	11/01/2024
Sample 1	Location mbh_oct_2034	1375				
Sample	Identification					
Lab Nu	mber	0900-1				
Total Ex	xchange Capacity (ME/100 g)	19.32				
pH (H <sub>2</sub>	O 1:1)	5.7				
Organic	Matter (360°C LOI) %	10.23				
Estimate	ed Nitrogen Release lb/A	125				
EXCHANGABLE ANIONS CATIONS		5 815 178 1049 229 	— — · · · · · · · · · · · · · · · · · ·	ENT		
	Magnesium % Potassium % Sodium % Other Bases % Hydrogen %	11.17 3.70 0.38 6.00 24.00				
		EXTRACTA	BLE MINOR	S		
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.48 363 71 0.89 1.84 1050				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	9			Date 11/01/2024	
1						
Sample	Location why age 2025					
	IIDI1_00t_2035	1377				
Sample	Identification					
Lab Nu	mber	0901-1				
Total Ex	xchange Capacity (ME/100 g)	19.59				
pH (H 2	O 1:1)	6.0				
Organic	Matter (360°C LOI) %	7.42				
Estimate	ed Nitrogen Release lb/A	112				
	SOLUBLE SULFUR* ppm	6				
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	1255				
ANIONS	$ \begin{array}{ccc}                                   $	274 1621				
AN	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	354				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>	331				
	立 ppm of P					
	CALCIUM* <u>lb/A</u>	4822		$oxed{\mathbb{L}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $		
EXCHANGABLE CATIONS	ppm	2411				
CATIONS	MAGNESIUM* lb/A	$\frac{648}{24}$		+ +		
N 0	ppm POTASSIUM* lb/A	3 <u>24</u> 596		+		
H K K	ppm ID/A	$\frac{1}{298}$		+ +		
×	SODIUM* lb/A	36		+		
	ppm	18				
	В	ASE SATURAT	TON PERCE	VT		
	Caldium %	61.54				
	Magnesium %	13.78				
	Potassium %	3.90				
	Sodium %	0.40				
	Other Bases % Hydrogen %	5.40				
	Tryurogen /o	15.00	LEMINODO			
		EXTRACTAB	LE MINORS			
	Boron* (ppm)	0.51				
	Iron* (ppm)	408				
	Manganese* (ppm) Copper* (ppm)	0.55				
-	Zinc* (ppm)	0.85		+ +		
	Aluminum* (ppm)	1194				
~	Soluble Salts (mmhos/cm)			1		
后 TS	Chlorides (ppm)					
OTHER TESTS						

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	2			Date <u>1</u>	1/01/2024
•						
Sample	Location mbh_oct_2036	1379				
Sample	Identification					
Lab Nu	mber	0902-1				
Total Ex	xchange Capacity (ME/100 g)	18.96				
pH (H 2	O 1:1)	5.3				
Organic	Matter (360°C LOI) %	5.60				
Estimate	ed Nitrogen Release lb/A	103				
	SOLUBLE SULFUR* ppm	6				
NS	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	504 110				
ANIONS	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	669				
Ā	ppm of P	146				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P					
	CALCIUM* lb/A	3054				
щ	ppm III/A	$\frac{-3034}{1527}$			- +	
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	550				
9 NO NO	ppm	275				
CATIONS	POTASSIUM* <u>lb/A</u>	652				
N N	ppm	326				
ш	SODIUM* <u>lb/A</u>	${}$ ${}$ $\frac{38}{19}$		+ $ -$	-	
		ASE SATURAT	ION PERC	ENT		
	Calcium %		TOTAL ELIC			
	Magnesium %	40.27 12.09				
	Potassium %	4.41				
	Sodium %	0.44				
	Other Bases %	6.80				
	Hydrogen %	36.00				
		EXTRACTAE	LE MINOR	S		
	Boron* (ppm)	0.41				
	Iron* (ppm)	351				
	Manganese* (ppm)	169				
	Copper* (ppm) Zinc* (ppm)	0.61				_
	Aluminum* (ppm)	734				
	Soluble Salts (mmhos/cm)	134				
S	Chlorides (ppm)					
OTHER TESTS						
0_						
				-		

<sup>\*</sup> Mehlich III Extractable

Name _	Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	<u> </u>			Date 1	1/01/2024	
•							
Sample	Location mbh_oct_2037	1381					
Sample	Identification	1301					
Lab Nu	mber	0903-1					
Total Ex	xchange Capacity (ME/100 g)	19.95					
pH (H 2	O 1:1)	6.0					
Organic	Matter (360°C LOI) %	8.27					
Estimate	ed Nitrogen Release lb/A	116					
	SOLUBLE SULFUR* ppm	6					
S	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub>	1072					
ANIONS	ppm of P	234				,	
ANI	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	1150					
	$ \begin{array}{c} \bigcirc \\ \bigcirc \\ \bigcirc \\ \bigcirc \\ OLSEN \end{array} $ $ \begin{array}{c} \text{ppint of } \\ \text{Ib/A } \\ \text{P as } \\ \text{P}_{2}\\ \text{O}_{5} $	251					
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P						
	CALCIUM* lb/A	4730					
出	ppm —	$\frac{1}{2365}$		<del>                                     </del>			
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	740					
NG OP	ppm	370					
CATIONS	POTASSIUM* lb/A	694					
S S	ppm	347					
ш	SODIUM* <u>lb/A</u>	${}$ ${}$ $\frac{38}{19}$		+ +			
	ppm	ASE SATURAT	ION PERCE	NT			
	Calcium %		TOTAL EROL				
	Magnesium %	59.27					
	Potassium %	15.46 4.46					
	Sodium %	0.41					
	Other Bases %	5.40					
	Hydrogen %	15.00					
		EXTRACTAB	LE MINORS				
	Boron* (ppm)	0.50					
	Iron* (ppm)	356					
	Manganese* (ppm)	89					
	Copper* (ppm)	0.52					
	Zinc* (ppm) Aluminum* (ppm)	2.03					
	Soluble Salts (mmhos/cm)	971		+			
ER	Chlorides (ppm)			+			
OTHER TESTS	emenato (ppm)						
0 =							
				<u>.</u>			

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	9				Date 1	1/01/2024
•							
Sample	Location mbh_oct_2038	1383					
Sample	Identification	1303					
Lab Nu							
-	xchange Capacity (ME/100 g)	0904-1					
		19.25					
pH (H <sub>2</sub>	O 1:1)	5.6					
Organic	Matter (360°C LOI) %	6.17					
Estimate	ed Nitrogen Release lb/A	106					
	SOLUBLE SULFUR* ppm	6					_
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	527					
ANIONS		115 595					
AN	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	130					
	OLSEN Ib/A P as P <sub>2</sub> O <sub>5</sub>	130					
	± ppm of P °						
	CALCIUM* <u>lb/A</u>	<u>3900</u>					
EXCHANGABLE CATIONS	ppm	1950					
CATIONS	MAGNESIUM* <u>lb/A</u>	$\frac{544}{272}$		+ -			
A S	POTASSIUM* lb/A	596					
CA	ppm	$\frac{1}{298}$		<del></del>		· — —	
EX	SODIUM* lb/A	36					_
	ppm	18					
		ASE SATURAT	TION PERC	CENT			
	Caldium %	50.65					
	Magnesium %	11.77					
	Potassium % Sodium %	3.97					
	Other Bases %	0.41 6.20					
	Hydrogen %	27.00					
	, 6	EXTRACTAE	BLE MINO	RS	•		
	Boron* (ppm)	0.44					
	Iron* (ppm)	342					
-	Manganese* (ppm)	104					
	Copper* (ppm)	0.84					
	Zinc* (ppm)	1.99					
	Aluminum* (ppm)	928					
24 (2)	Soluble Salts (mmhos/cm)						
OTHER TESTS	Chlorides (ppm)						
O TE							
		<u> </u>					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	<u> </u>			Date _ 1	1/01/2024
•						
Sample	Location why age 2020					
	IIDI1_000_2039	1385				
Sample	Identification					
Lab Nu	mber	0905-1				
Total Ex	xchange Capacity (ME/100 g)	17.05				
pH (H 2	O 1:1)	5.7				
Organic	Matter (360°C LOI) %	20.18				
Estimate	ed Nitrogen Release lb/A	> 130				
	SOLUBLE SULFUR* ppm	6				
S	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	133				
ANIONS		29				
AN	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	169 37				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>	37				
	± ppm of P					
	CALCIUM* lb/A	3990				
3LE	ppm	1995				
EXCHANGABLE CATIONS	MAGNESIUM* <u>lb/A</u>	$\frac{338}{169}$		+ $ -$	_ +	
AN OI	POTASSIUM* lb/A	374				
CA.		$-\frac{371}{87}$	— —	+	-+	
EX	SODIUM* lb/A	34				
	ppm	<u> </u>				
	В	ASE SATURAT	TON PERC	ENT		
	Caldium %	58.50				
	Magnesium %	8.26				
	Potassium %	2.81				
	Sodium % Other Bases %	0.43				
	Hydrogen %	6.00 24.00				
	1.jurogen /o	EXTRACTAB	I F MINOR	)		
	Boron* (ppm)	0.44	LL WIII VOIV		Т	
-	Iron* (ppm)	191		-		
-	Manganese* (ppm)	79				
	Copper* (ppm)	0.80				
	Zinc* (ppm)	1.66				
	Aluminum* (ppm)	1202				
۵, ۵	Soluble Salts (mmhos/cm)					
HESTS	Chlorides (ppm)					
OTHER TESTS						

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californi	ia, City	Santa E	Barbara	State	CA
Indepen	dent Consultant Home Office	<u> </u>			Date _	11/01/2024
Sample	Location mbh_oct_2040	1387				
Sample 1	Identification					
Lab Nu	mber	0906-1				
Total Ex	xchange Capacity (ME/100 g)	16.04				
pH (H <sub>2</sub>	O 1:1)	5.5				
Organic	Matter (360°C LOI) %	22.06				
Estimate	ed Nitrogen Release lb/A	> 130				
EXCHANGABLE ANIONS CATIONS	Calcium % Magnesium %	6 105 23 128 28  128 28	— — — — — — — — — — — — — — — — — — —	ENT		
	Potassium % Sodium % Other Bases % Hydrogen %	2.53 0.46 6.40 30.00				
		EXTRACTA	BLE MINORS	S		
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.26 172 97 0.61 1.78 1219				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	2			Date1	1/01/2024
•						
Sample	Location mbh_oct_2041	1389				
Sample	Identification	1307				
Lab Nu						
-	xchange Capacity (ME/100 g)	0907-1				
		19.84				
pH (H <sub>2</sub>	O 1:1)	6.1				_
Organic	Matter (360°C LOI) %	19.43				
Estimate	ed Nitrogen Release lb/A	130				
	SOLUBLE SULFUR* ppm	6				
SZ	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	41				
ANIONS	$ \begin{array}{ccc}                                   $	9 41				
AN	⊕ ppm of P	9				
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>					
	Ppin or 1	5.4.4.4				
ш	CALCIUM* $\frac{\text{lb/A}}{\text{ppm}}$ —	$\frac{5444}{2722}$		<del></del>	- +	
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	418				
CATIONS	ppm —	209				
HAN ATI	POTASSIUM* <u>lb/A</u>	550				
S S	ppm	275				
ய்	SODIUM* <u>lb/A</u>	$\frac{1}{17}$		<del></del>	- +	
		ASE SATURAT	TION PERC	ENT		
	Caldium %	68.60				
	Magnesium %	8.78				
	Potassium %	3.55				
	Sodium %	0.37				
	Other Bases % Hydrogen %	5.20				
	Tryulogen //	13.50 EXTRACTAE	BLE MINOR	2S		
	Boron* (ppm)	0.40			T	
	Iron* (ppm)	157				
-	Manganese* (ppm)	65				
	Copper* (ppm)	0.89				
	Zinc* (ppm)	1.15				
	Aluminum* (ppm)	1206				<b></b>
S	Soluble Salts (mmhos/cm) Chlorides (ppm)					
OTHER TESTS	Cinonaes (ppin)	<del> </del>				
0.0						<del>                                     </del>
		<u>.                                    </u>				<u> </u>

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Independent Consultant Home	Office				Date	11/01/2024
•						
Sample Location mbh_oct_20	14.2	1391				
Sample Identification	42	1391				+
Lab Number						
		0908-1				
Total Exchange Capacity (ME/100 g)	)	17.66				
pH (H <sub>2</sub> O 1:1)		5.8				
Organic Matter (360°C LOI) %		13.62				
Estimated Nitrogen Release	lb/A	127				
	ppm	6				
S MEHLICH III lb/A	P as P <sub>2</sub> O <sub>5</sub> ppm of P	151				
MEHLICH III Ib/A O BRAY II Ib/A	P as P <sub>2</sub> O <sub>5</sub>	33 234				
	ppm of P	51				
♀ OLSEN lb/A	P as P <sub>2</sub> O <sub>5</sub>					
	ppm of P	4004				
	ppm —	$\frac{4204}{2102}$		<del> </del>	-	·
188	lb/A	384				
MAGNESIUM* POTASSIUM*	ppm —	1 <u>92</u>				
POTASSIUM*	lb/A	5 <u>74</u>				
O O O	ppm	287				
	lb/A ppm	$\frac{36}{18}$	— —	+	- +	·   — — —
		ASE SATURAT	ION PERC	ENT		
Calcium %		59.51				
Magnesium %		9.06				
Potassium %		4.17				
Sodium %		0.44				
Other Bases %		5.80				
Hydrogen %		21.00 EXTRACTAB	I E MINIOD	C		
D */	П		LE MINOR	<u>ა</u>		
Boron* (ppm)		0.31				
Iron* (ppm)  Manganese* (ppm)		220 58				
Copper* (ppm)		0.82				
Zinc* (ppm)		2.13				
Aluminum* (ppm)		1021				
Calubla Calta (mmbag/	cm)					
Chlorides (ppm)						
Chlorides (ppm)						

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	9			Date 1	1/01/2024
•						
Sample	Location why age 2042					
	IIDI1_000_2043	1393				
Sample	Identification					
Lab Nu	mber	0909-1				
Total Ex	xchange Capacity (ME/100 g)	14.59				
<u>pH (H</u> <sub>2</sub>	O 1:1)	5.4				
Organic	Matter (360°C LOI) %	12.56				
Estimate	ed Nitrogen Release lb/A	126				
	SOLUBLE SULFUR* ppm	5				
S	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	348				
ANIONS	$ \begin{array}{ccc}                                   $	76 508				
AN	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	111				
	OLSEN Ib/A P as P <sub>2</sub> O <sub>5</sub>					
	± ppm of P °					
	CALCIUM* <u>lb/A</u>	2716				
3LE	ppm	1358				
EXCHANGABLE CATIONS	MAGNESIUM* <u>lb/A</u>	$\frac{320}{160}$		<del> </del>	<u> </u>	
AN I	POTASSIUM* lb/A	488				
CA	ppm	$\frac{1}{244}$		<del>                                     </del>		
EX	SODIUM* lb/A	30				
	ppm	15				
	В	ASE SATURAT	TON PERCE	ENT		
	Caldium %	46.54				
	Magnesium %	9.14				
	Potassium %	4.29				
	Sodium % Other Bases %	0.45				
	Hydrogen %	6.60 33.00				
	J 8	EXTRACTAB	SLE MINORS	<u> </u>		
	Boron* (ppm)	0.39	22111111011			
	Iron* (ppm)	283				
	Manganese* (ppm)	73				
	Copper* (ppm)	0.94				
	Zinc* (ppm)	3.88				
	Aluminum* (ppm)	1234		_		
S	Soluble Salts (mmhos/cm) Chlorides (ppm)					
OTHER TESTS	стопась (ррш)					
011						
		•		!		

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa 1	Barbara	State	CA
Indepen	dent Consultant Home Office	9			Date _	11/01/2024
Sample 1	Location mbh_oct_2044	1395				
Sample	Identification					
Lab Nu	mber	0910-1				
Total Ex	xchange Capacity (ME/100 g)	12.06				
pH (H 2	O 1:1)	4.6				
Organic	Matter (360°C LOI) %	8.87				
Estimate	ed Nitrogen Release lb/A	119				
EXCHANGABLE ANIONS CATIONS	Calcium % Magnesium % Potassium % Sodium %	12 206 45 215 47	— — — — — — ГІОN PERC	ENT		
	Other Bases % Hydrogen %	8.20 53.00				
		EXTRACTAL	BLE MINOR	.S		
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.45 329 18 0.75 0.75				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa	Barbara	State	CA
Indepen	dent Consultant Home Office	9			Date _	11/01/2024
Sample 1	Location mbh_oct_2045	1397				
Sample	Identification					
Lab Nu	mber	0911-1				
Total Ex	xchange Capacity (ME/100 g)	8.78				
pH (H <sub>2</sub>	O 1:1)	4.1				
Organic	Matter (360°C LOI) %	16.34				
Estimate	ed Nitrogen Release lb/A	128				
EXCHANGABLE ANIONS CATIONS		9 101 22 73 16	— — — — — — — — — — — — — — — — — — —	ENT		
	Other Bases % Hydrogen %	9.20 63.00				
		EXTRACTA	BLE MINOR	RS		
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.25 212 7 0.47 0.68 543				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa E	Barbara	State	CA
Indepen	dent Consultant Home Office	9			Date _	11/01/2024
Sample	Location mbh_oct_2046	1399				
Sample	Identification					
Lab Nu	mber	0912-1				
Total Ex	xchange Capacity (ME/100 g)	13.90				
pH (H <sub>2</sub>	O 1:1)	5.0				
Organic	Matter (360°C LOI) %	4.80				
Estimate	ed Nitrogen Release lb/A	98				
EXCHANGABLE ANIONS CATIONS	SOLUBLE SULFUR* ppm    MEHLICH III   lb/A   P as P <sub>2</sub> O <sub>5</sub>   ppm of P	12 128 28 87 19 ———————————————————————————————————		ENT		
		32.12 12.23 1.81 1.44 7.40 45.00				
		EXTRACTAL	BLE MINORS	S		
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.39 255 9 0.46 0.58 1040				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa 1	Barbara	State	CA
Indepen	dent Consultant Home Office	9			Date _	11/01/2024
Sample	Location mbh_oct_2047	1401				
Sample	Identification					
Lab Nu	mber	0913-1				
Total Ex	xchange Capacity (ME/100 g)	13.89				
pH (H <sub>2</sub>	O 1:1)	5.0				
Organic	Matter (360°C LOI) %	6.89				
Estimate	ed Nitrogen Release lb/A	109				
EXCHANGABLE ANIONS CATIONS		14 485 106 453 99	— — — — — — ГІОN PERC	ENT		
	Other Bases % Hydrogen %	7.40 45.00				
	. •	EXTRACTA	BLE MINOR	S		
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.49 218 18 0.53 1.64 1127				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)	1127				

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Independent Consultant Home Office					Date1	1/01/2024
•						
Sample	Location mbb agt 2049					
	IIIDI1_000_2046	1403				
Sample	Identification					
Lab Nu	mber	0914-1				
Total Ex	xchange Capacity (ME/100 g)	10.79				
<u>pH (H</u> <sub>2</sub>	O 1:1)	4.8				
Organic	Matter (360°C LOI) %	6.86				
Estimate	ed Nitrogen Release lb/A	109				
	SOLUBLE SULFUR* ppm	14				
S	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	302				
ANIONS		66 275				
	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	60				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>					
	Ppin or 1					
	CALCIUM* <u>lb/A</u>	1318				
BLE	ppm	659				
EXCHANGABLE CATIONS	MAGNESIUM* <u>lb/A</u>	$\frac{230}{115}$		<del>                                     </del>	<u> </u>	
AN TIC	POTASSIUM* lb/A	224				
CH	ppm —	$\frac{1}{12}$		<del>                                     </del>		
EX	SODIUM* lb/A	56				
	ppm	28				
	В	ASE SATURAT	TON PERCE	ENT		
	Caldium %	30.54				
	Magnesium %	8.88				
	Potassium %	2.66				
	Sodium % Other Bases %	1.13				
	Hydrogen %	7.80 49.00				
	7.0	EXTRACTAB	I F MINIORS	2		
	Povon* (nnm)		LL MIINOIA	,	T	
	Boron* (ppm) Iron* (ppm)	0.36				
	Manganese* (ppm)	28				
	Copper* (ppm)	0.52				
	Zinc* (ppm)	2.24				
	Aluminum* (ppm)	1298				
~	Soluble Salts (mmhos/cm)					
HE	Chlorides (ppm)					
OTHER TESTS						
					<u> </u>	

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Independent Consultant Home Office					Date1:	1/01/2024
•						
Sample	Location mbh_oct_2049	1405				
Sample	Identification					
Lab Nu	mber	0915-1				
Total Ex	xchange Capacity (ME/100 g)	10.22				
pH (H <sub>2</sub>	O 1:1)	4.2				
Organic	Matter (360°C LOI) %	9.76				
Estimate	ed Nitrogen Release lb/A	124				
	SOLUBLE SULFUR* ppm	13				
ANIONS	$\stackrel{\smile}{\supseteq}  \begin{array}{ccc} \text{MEHLICH III} & & \text{lb/A} & \text{P as P}_2\text{O}_5 \\ & & \text{ppm of P} \end{array}$	339				
	$\begin{array}{c} \square \\ \square $	74 311				
	⊕ ppm of P	68				
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>					
	□ ppm of P  CALCIUM* lb/A	650				
	CALCIUM" ID/A ppm	$\phantom{00000000000000000000000000000000000$		+ +		
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	250				
) NO	ppm —	125				
CATIONS	POTASSIUM* <u>lb/A</u>	156				
N N	ppm	78				
ப்	SODIUM* <u>lb/A</u>	$\frac{92}{46}$		+ +		
		SASE SATURAT	ION PERCE	NT		
	Calcium %			I		
	Magnesium %	15.90 10.19				
	Potassium %	1.96				
	Sodium %	1.96				
	Other Bases %	9.00				
	Hydrogen %	61.00				
		EXTRACTAB	LE MINORS			
	Boron* (ppm)	0.47				
	Iron* (ppm)	315				
	Manganese* (ppm)	11				
	Copper* (ppm) Zinc* (ppm)	0.73				
	Aluminum* (ppm)	940				
0.1	Soluble Salts (mmhos/cm)	) <del>1</del> 0		+ +		
LER LS	Chlorides (ppm)			1		
OTHER TESTS				<u>                                     </u>		

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa B	arbara	State	CA
Indepen	dent Consultant Home Office	9			Date _	11/01/2024
Sample 1	Location mbh_oct_2050	1407				
Sample 1	Identification					
Lab Nu	mber	0916-1				
Total Ex	xchange Capacity (ME/100 g)	8.27				
pH (H <sub>2</sub>	O 1:1)	4.3				
Organic	Matter (360°C LOI) %	7.78				
Estimate	ed Nitrogen Release lb/A	114				
EXCHANGABLE ANIONS CATIONS		20 554 121 586 128	TION PERCE	NT		
	Calcium % Magnesium % Potassium % Sodium % Other Bases % Hydrogen %	17.90 10.08 1.98 2.26 8.80 59.00				
		EXTRACTAL	BLE MINORS	<del></del>		
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.55 363 6 1.14 0.61 1426				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Sample Location   mbh_oct_2051   1409	Name University of California, City Santa Barbara State CA						
Sample Identification	Independent Consultant Home Office					1/01/2024	
Sample Identification	•						
Total Exchange Capacity (ME/100 g)	Sample Location mbh_oct_2051	1409					
Total Exchange Capacity (ME/100 g)	Sample Identification						
Total Exchange Capacity (ME/100 g)	Lab Number	0918-1					
Table 10.37           Estimated Nitrogen Release         Ib/A         10.37           SOLUBLE SULFUR* ppm         28           SOLUBLE SULFUR* ppm         28           MEHLICH III         Ib/A P as P₂O₃ ppm of P         1.20           DISEN         Ib/A P as P₂O₃ ppm of P         1.58           CALCIUM*         Ib/A P as P₂O₃ ppm of P         1.116         MAGNESIUM*         Ib/A ppm         - 558         MAGNESIUM*         Ib/A ppm         - 138 ppm         - 101           SODIUM*         Ib/A ppm         - 202 ppm         - 101           SODIUM*         BASE SATURATION PERCENT           Caldium % Agenesium	Total Exchange Capacity (ME/100 g)						
SOLUBLE SULFUR*   ppm   28	pH (H <sub>2</sub> O 1:1)						
SOLUBLE SULFUR*   ppm   28	Organic Matter (360°C LOI) %	10.37					
MEHLICH III	Estimated Nitrogen Release lb/A	125					
Potassium   Pota	**						
CALCIUM*   Ib/A   ppm   558	ppm of P						
CALCIUM*   Ib/A   ppm   558	$\frac{\circ}{\Xi}$ $\frac{\circ}{BRAY II}$ $\frac{Bb/A Pas P_2 O_5}{BRAY II}$	724					
CALCIUM*   Ib/A   Dpm   558	bbii oi i	158					
CALCIUM*   Ib/A   1116   558	OLSEN ID/A Pas P <sub>2</sub> O <sub>5</sub> ppm of P						
Name		1116					
Description	ppm —						
Description	MAGNESIUM* lb/A			<del> </del>			
Description	POTASSILIM*						
Description				<del>                                     </del>		<del></del>	
BASE SATURATION PERCENT	SODIUM* lb/A	48					
Calcium       %         Magnesium       %         Potassium       %         Sodium       %         Other Bases       %         Hydrogen       %         EXTRACTABLE MINORS	ppm	24					
Magnesium       %         Potassium       %         Sodium       %         Other Bases       %         Hydrogen       %         EXTRACTABLE MINORS	В.	ASE SATURAT	ION PERCE	NT			
Potassium % 2.24 Sodium % 0.90 Other Bases % 8.80 Hydrogen % 59.00  EXTRACTABLE MINORS							
Sodium         %           Other Bases         %           Hydrogen         8.80           59.00    EXTRACTABLE MINORS							
Other Bases % Hydrogen % 8.80 59.00  EXTRACTABLE MINORS							
Hydrogen % 59.00 EXTRACTABLE MINORS							
EXTRACTABLE MINORS	Hydrogen %	59.00					
Roron* (npm) 0 5.4			LE MINORS				
DOIOI (MIII)   10.04     10.00	Boron* (ppm)	0.54					
Iron* (ppm) 249	Iron* (ppm)	249					
Manganese* (ppm) 18	Manganese* (ppm)						
Copper* (ppm)         0.77           Zinc* (ppm)         0.93	Copper* (ppm)						
Zinc* (ppm) 0.93 Aluminum* (ppm) 1577	Aluminum* (nnm)						
Coluble Colta (mmbos /m)	Coluble Colta (mambag/gm)	<u> </u>		+			
Chlorides (ppm)	☐ Chlorides (ppm)						
Soluble Saits (minnos/dn)  Chlorides (ppm)	LES						

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa I	3arbara	State	CA
Indepen	dent Consultant Home Office	e			Date _	11/01/2024
Sample	Location mbh_oct_2052	1411				
Sample 1	Identification					
Lab Nu	mber	0919-1				
Total Ex	schange Capacity (ME/100 g)	15.92				
pH (H 2	O 1:1)	4.4				
Organic	Matter (360°C LOI) %	17.06				
Estimate	ed Nitrogen Release lb/A	129				
EXCHANGABLE ANIONS CATIONS	Calcium % Magnesium % Potassium % Sodium %	21 600 131 362 79	TION PERCI	ENT		
	Other Bases % Hydrogen %	8.60 57.00				
		EXTRACTAI	BLE MINOR	S		
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.67 243 37 0.78 2.21 1282				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Independent Consultant	Name University of California, City Santa Barbara State CA						
Sample Location   mbh_oct_2053   1413	Independent Consultant Home Office					1/01/2024	
Sample Identification	-						
Sample Identification	Sample Location						
Total Exchange Capacity (ME/100 g)   20.58		1413					
Total Exchange Capacity (ME/100 g)   20.58	Sample Identification						
Description	Lab Number	0920-1					
Soluble   Solu	Total Exchange Capacity (ME/100 g)	20.58					
SOLUBLE SULFUR*   ppm	pH (H <sub>2</sub> O 1:1)	5.0					
SOLUBLE SULFUR*   ppm	Organic Matter (360°C LOI) %	9.93					
MEHLICH III	Estimated Nitrogen Release lb/A	125					
MEHLICH III	* *	12					
CALCIUM*   Ib/A   2682	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub>						
CALCIUM*   Ib/A   2682	$ \begin{array}{c cccc}  & & & & & & & & & & & \\ \hline  & & & & & & & & & & \\ \hline  & & & & & & & & \\ \hline  & & & & & & & \\ \hline  & & & \\ \hline  & & & \\ \hline  & &$						
CALCIUM*   Ib/A   2682	bbii oi i						
CALCIUM*   Ib/A   2682   ppm   1341	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>						
Potassium   Pota	ppin of 1	2600					
BASE SATURATION PERCENT				<del>                              </del>			
BASE SATURATION PERCENT	MAGNESIUM* lb/A						
BASE SATURATION PERCENT	75 NO ppm —	302					
BASE SATURATION PERCENT	POTASSIUM* lb/A						
BASE SATURATION PERCENT	D D ppm						
BASE SATURATION PERCENT				- — <del>-</del>			
Caldium       %         Magnesium       %         Potassium       1.48         Sodium       %         Other Bases       7.40         Hydrogen       45.00         EXTRACTABLE MINORS         Boron* (ppm)       0.81         Iron* (ppm)       202         Manganese* (ppm)       16         Copper* (ppm)       0.53         Zinc* (ppm)       0.87         Aluminum* (ppm)       1191			ION PERCEN	<u>Г</u>			
Magnesium       %       12.23         Potassium       %       1.48         Sodium       %       1.31         Other Bases       %       7.40         Hydrogen       %       45.00         EXTRACTABLE MINORS         Boron* (ppm)       0.81         Iron* (ppm)       202         Manganese* (ppm)       16         Copper* (ppm)       0.53         Zinc* (ppm)       0.87         Aluminum* (ppm)       1191		П	101VI LICELIV				
Potassium							
Sodium	O .						
Other Bases % Hydrogen %       7 . 40 45 . 00         EXTRACTABLE MINORS         Boron* (ppm)       0 . 81         Iron* (ppm)       202         Manganese* (ppm)       16         Copper* (ppm)       0 . 53         Zinc* (ppm)       0 . 87         Aluminum* (ppm)       1191							
EXTRACTABLE MINORS		7.40					
Boron* (ppm)   0.81	Hydrogen %	45.00					
Iron* (ppm)   202		EXTRACTAB	LE MINORS				
Manganese* (ppm)         16           Copper* (ppm)         0.53           Zinc* (ppm)         0.87           Aluminum* (ppm)         1191							
Copper* (ppm)         0.53           Zinc* (ppm)         0.87           Aluminum* (ppm)         1191	Iron* (ppm)						
Zinc* (ppm) 0.87 Aluminum* (ppm) 1191	Manganese* (ppm)						
Aluminum* (ppm) 1191	Zinc* (ppm)						
Coluble Colta (mmbos /m)	Aluminum* (ppm)						
Chlorides (ppm)	Caluble Colta (mmb og /gm)			+			
OT LES	☐ Chlorides (ppm)	1		<u> </u>			
	OTI-						
		<u> </u>					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Independent Consultant Home Office					1/01/2024	
•						
Sample Location who age 2054						
mbh_oct_2054	1415					
Sample Identification						
Lab Number	0921-1					
Total Exchange Capacity (ME/100 g)	19.99					
pH (H <sub>2</sub> O 1:1)	5.2					
Organic Matter (360°C LOI) %	13.06					
Estimated Nitrogen Release lb/A	127					
SOLUBLE SULFUR* ppm	10					
MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	215					
MEHLICH III Ib/A P as P <sub>2</sub> O <sub>5</sub> ppm of P  BRAY II Ib/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	47					
$ \begin{array}{c cccc} \hline O \\ H \\ O \\ O \\ \hline BRAY II & lb/A P as P_2O_5 ppm of P \end{array} $	115 25					
OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>	2.3					
ppm of P						
CALCIUM* lb/A	2812					
ppm	1406					
	${364}$		+ +			
POTASSIUM* lb/A	242					
	$-\frac{212}{121}$		<del>   </del>		<del></del>	
SODIUM* lb/A	194					
ppm	97					
E	ASE SATURAT	ION PERCE	NT			
Calcium %	35.17					
Magnesium %	15.17					
Potassium %	1.55					
Sodium %	2.11					
Other Bases % Hydrogen %	7.00					
11yulogen /0	39.00	I E MINIODO				
EXTRACTABLE MINORS						
Boron* (ppm)	0.56					
Iron* (ppm) Manganese* (ppm)	238					
Copper* (ppm)	1.11					
Zinc* (ppm)	3.01					
Aluminum* (ppm)	1095				,	
Caluble Calta (manbes / ma)						
Chlorides (ppm)						
Chlorides (ppm)						
	<u> </u>				<u> </u>	

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Independent Consultant Home Office					Date 1	1/01/2024
•						
Sample	Location who age 2055					
	IIDI1_00t_2055	1417				
Sample	Identification					
Lab Nu	mber	0922-1				
Total Ex	xchange Capacity (ME/100 g)	17.39				
<u>pH (H</u> <sub>2</sub>	O 1:1)	5.0				
Organic	Matter (360°C LOI) %	11.06				
Estimate	ed Nitrogen Release lb/A	126				
	SOLUBLE SULFUR* ppm	15				
ANIONS	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	197				
	$ \begin{array}{ccc}                                   $	43				
	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	105 23				
	$ \begin{array}{c} O \\ O \\$	23				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P					
	CALCIUM* lb/A	2146				
出	ppm —	1073			<del> </del>	
AB	MAGNESIUM* <u>lb/A</u>	548				
N. O.	ppm	274				
EXCHANGABLE CATIONS	POTASSIUM* <u>lb/A</u> ppm	$-\frac{224}{112}$		<del>_</del>	- +	
×	SODIUM* lb/A	158				
Ш	ppm —	$\frac{1}{79}$		<del></del>	<del>-                                    </del>	
		ASE SATURAT	TION PERC	ENT		
	Calcium %	30.85				
	Magnesium %	13.13				
	Potassium %	1.65				
	Sodium %	1.98				
	Other Bases %	7.40				
	Hydrogen %	45.00				
		EXTRACTAB	LE MINOR	S		
	Boron* (ppm)	0.45				
	Iron* (ppm)	217				
	Manganese* (ppm)	11				
	Copper* (ppm) Zinc* (ppm)	0.52				
	Aluminum* (ppm)	1295				
	Soluble Salts (mmhos/cm)	1293				
S	Chlorides (ppm)					
OTHER TESTS	3.1 /					
0						
		-			-	

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Independent Consultant Home Office					D	ate13	1/01/2024
•							
Sample	Location mbh_oct_2056	1419					
Sample	Identification	1419					
Lab Nu							
-		0923-1					
Total Ex	xchange Capacity (ME/100 g)	18.48					
pH (H <sub>2</sub>	O 1:1)	5.0					
Organic	Matter (360°C LOI) %	10.25					
Estimate	ed Nitrogen Release lb/A	125					
	SOLUBLE SULFUR* ppm	15					
S	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	408					
ANIONS	$ \begin{array}{c}                                     $	89					
	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	380 83					
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>	0.3					
	± ppm of P ppm of P						
	CALCIUM* lb/A	2328					
EXCHANGABLE CATIONS	ppm	1164					
SAE NS	MAGNESIUM* lb/A	506					
N O	ppm	253 446					
CATIONS	POTASSIUM* <u>lb/A</u> ppm	$-\frac{446}{223}$		+-			
×	SODIUM* lb/A	136					
ш	ppm	$\frac{1}{68}$					
	В	ASE SATURAT	TON PERC	CENT			
	Caldium %	31.49					
	Magnesium %	11.41					
	Potassium %	3.09					
	Sodium %	1.60					
	Other Bases % Hydrogen %	7.40					
	Tryulogen /0	45.00 EXTRACTAB	RI F MINO	RS			
	Doron* (nnm)	1	LE MIN (O)				
	Boron* (ppm) Iron* (ppm)	0.45					
	Manganese* (ppm)	23					
	Copper* (ppm)	0.35					
-	Zinc* (ppm)	0.74					
	Aluminum* (ppm)	1277					
~	Soluble Salts (mmhos/cm)						
HE	Chlorides (ppm)						
OTHER TESTS		<b></b>					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Independent Consultant Home Office					Date1	1/01/2024
•						
Sample	Location mbh_oct_2057	1421				
Sample	Identification					
Lab Nu	mber	0924-1				
Total Ex	xchange Capacity (ME/100 g)	14.77				
pH (H <sub>2</sub>	O 1:1)	4.3				
Organic	Matter (360°C LOI) %	19.12				
Estimate	ed Nitrogen Release lb/A	130				
	SOLUBLE SULFUR* ppm	10				
ANIONS	$\stackrel{\smile}{\supseteq}  \begin{array}{ccc} \text{MEHLICH III} & & \text{lb/A} & \text{P as P}_2\text{O}_5 \\ & & \text{ppm of P} \end{array}$	169 37				
	$\frac{O}{\pm}$ BRAY II $\frac{B}{A}$ Bray II	60				
		13				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P					
	CALCIUM* lb/A	1238				
EXCHANGABLE CATIONS	ppm —	619				
CATIONS	MAGNESIUM* lb/A	$\frac{292}{146}$			<u> </u>	
ANG IO	ppm POTASSIUM* lb/A	152				
CA.		$-\frac{132}{76}$		<del>                                     </del>	<del>                                     </del>	<u> </u>
EX	SODIUM* lb/A	114				
	ppm	<u> </u>				
	В	ASE SATURAT	TON PERCE	INT		
	Calcium %	20.95				
	Magnesium %	8.24				
	Potassium % Sodium %	1.32				
	Other Bases %	1.68				
	Hydrogen %	8.80 59.00				
	, s	EXTRACTAB	LE MINORS			
	Boron* (ppm)	0.35		Т	T	
-	Iron* (ppm)	181				
	Manganese* (ppm)	22				
	Copper* (ppm)	0.20				
	Zinc* (ppm)	1.23				
	Aluminum* (ppm)	641				
S	Soluble Salts (mmhos/cm) Chlorides (ppm)	<del>                                     </del>				
OTHER TESTS	отопась (ррш)					
0 = 1						
				•	-	

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	La, City _	Santa Ba	rbara	State	CA
Indepen	dent Consultant Home Office	<u> </u>			Date _	11/01/2024
Sample	Location mbh_oct_2058	1423				
Sample	Identification					
Lab Nu	mber	0925-1				
Total Ex	xchange Capacity (ME/100 g)	12.66				
pH (H <sub>2</sub>	O 1:1)	5.0				
Organic	Matter (360°C LOI) %	6.77				
Estimate	ed Nitrogen Release lb/A	109				
EXCHANGABLE ANIONS CATIONS	Calcium %	14 527 115 348 76  1582 791 318 159 414 207 100 50  BASE SATURAT 31.24		T		
	Magnesium % Potassium % Sodium % Other Bases % Hydrogen %	10.47 4.19 1.72 7.40 45.00				
		EXTRACTAE	BLE MINORS			
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.46 227 20 0.31 1.54 1166				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa I	Barbara	State	CA
Indepen	dent Consultant Home Office	e			Date _	11/01/2024
Sample	Location mbh_oct_2059	1425				
Sample 1	Identification					
Lab Nu	mber	0926-1				
Total Ex	xchange Capacity (ME/100 g)	9.32				
pH (H <sub>2</sub>	O 1:1)	5.2				
Organic	Matter (360°C LOI) %	3.87				
Estimate	ed Nitrogen Release lb/A	89				
EXCHANGABLE ANIONS CATIONS	Calcium % Magnesium % Potassium %	11 394 86 325 71	— — — — — — — — — — — — — — — — — — —	ENT		
	Sodium % Other Bases % Hydrogen %	1.40				
	11, uto gen /0	39.00 EXTRACTAR	L BLE MINOR	S		
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.40 278 18 0.28 0.57 1043				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	2			Date 1	1/01/2024
•						
Sample	Location mbh_oct_2060	1427				
Sample	Identification					
Lab Nu	mber	0927-1				
Total Ex	xchange Capacity (ME/100 g)	11.24				
pH (H <sub>2</sub>	O 1:1)	5.1				
Organic	Matter (360°C LOI) %	4.41				
Estimate	ed Nitrogen Release lb/A	94				
	SOLUBLE SULFUR* ppm	9				
SN	$\stackrel{\smile}{\supseteq}  \begin{array}{ccc} \text{MEHLICH III} & & \text{lb/A} & \text{P as P}_2\text{O}_5 \\ & & \text{ppm of P} \end{array}$	197 43				
ANIONS	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	174				
Ā	ppm of P	38				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>					
	□ ppm of P  CALCIUM* lb/A	1636		1		
щ	CALCIUM ppm	818		+ +		
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	276		1		
9 N N	ppm —	$-\frac{138}{}$		$\dagger \dagger$		
CATIONS	POTASSIUM* <u>lb/A</u>	258				
N N	ppm	129				
ய்	SODIUM* <u>lb/A</u>	$\frac{1}{32}$		+ +		
		ASE SATURAT	ION PERCEN	<u>I</u> NT		
	Calcium %	1	TOTAL ERCEL	<u> </u>		
	Magnesium %	36.39 10.23				
	Potassium %	2.94				
	Sodium %	1.24				
	Other Bases %	7.20				
	Hydrogen %	42.00				
		EXTRACTAB	LE MINORS			
	Boron* (ppm)	0.34				
	Iron* (ppm)	200				
	Manganese* (ppm)	28				
	Copper* (ppm)	< 0.2				
	Zinc* (ppm) Aluminum* (ppm)	0.77		1		
	Soluble Salts (mmhos/cm)	828		+ +		
ER 'S	Chlorides (ppm)			+		
OTHER TESTS	(FF)			† †		
0=				† †		,
	-	-				

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	2			Date1	1/01/2024
•						
Sample	Location mbh_oct_2061	1429				
Sample	Identification					
Lab Nu	mber	0928-1				
Total Ex	xchange Capacity (ME/100 g)	17.41				
pH (H 2	O 1:1)	5.2				
Organic	Matter (360°C LOI) %	8.25				
Estimate	ed Nitrogen Release lb/A	116				
	SOLUBLE SULFUR* ppm	13				
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	678 148				
ANIONS	$\frac{O}{\pm}$ BRAY II $\frac{B}{A}$ Bray II	513				
Α	ppm of P	112				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P					
	CALCIUM* lb/A	2808		+		
щ	ppm —	$\frac{2000}{1404}$		<del>                                     </del>	<del>                                     </del>	<u> </u>
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	436				
CATIONS	ppm	218				
HA	POTASSIUM* <u>lb/A</u>	$\frac{364}{182}$		<del> </del>	<u> </u>	
X	SODIUM* lb/A	44				
ш	ppm —	$-\frac{11}{22}$		+	<del></del>	
		ASE SATURAT	ION PERCE	INT		
	Caldium %	40.32				
	Magnesium %	10.43				
	Potassium %	2.68				
	Sodium %	0.55				
	Other Bases % Hydrogen %	7.00				
	Hydrogen %	39.00 EXTRACTAB	I E MINODO			
	D 11/		LE MINORS		Г	
	Boron* (ppm)	0.47				
	Iron* (ppm) Manganese* (ppm)	199 41				
-	Copper* (ppm)	0.50				
	Zinc* (ppm)	1.27				
	Aluminum* (ppm)	823				
~ _	Soluble Salts (mmhos/cm)					
HE	Chlorides (ppm)					
OTHER TESTS						
					<u> </u>	

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	9			Date1	1/01/2024
Sample	Location mbh_oct_2062	1431				
Sample	Identification					
Lab Nu	mber	0929-1				
Total Ex	xchange Capacity (ME/100 g)	12.49				
pH (H 2	O 1:1)	5.4				
Organic	Matter (360°C LOI) %	4.93				
Estimate	ed Nitrogen Release lb/A	99				
	SOLUBLE SULFUR* ppm	11				
SNS	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	545 119				
ANIONS	$\frac{O}{\pm}$ BRAY II $\frac{B}{A}$ Bray II	389				
A		85				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P					
	CALCIUM* lb/A	2124				
EXCHANGABLE CATIONS	ppm	1062				
CATIONS	MAGNESIUM* <u>lb/A</u>	$-\frac{400}{200}$		+ +		
AN	POTASSIUM* lb/A	354				
CH CH CH	<del>ppm</del> —	$-\frac{1}{77}$				
EX	SODIUM* <u>lb/A</u>	52		$oldsymbol{\perp} oldsymbol{} oldsymbol{\perp}$		
	ppm	26				
	В	ASE SATURAT	TON PERCE	NT		
	Calcium %	42.51				
	Magnesium %	13.34				
	Potassium % Sodium %	3.63				
	Other Bases %	0.91 6.60				
	Hydrogen %	33.00				
		EXTRACTAB	LE MINORS			
	Boron* (ppm)	0.45		Τ		
	Iron* (ppm)	162				
	Manganese* (ppm)	24				
	Copper* (ppm)	0.49				
	Zinc* (ppm)	0.76				
	Aluminum* (ppm) Soluble Salts (mmhos/cm)	910		+ +		
ER.	Chlorides (ppm)			+		
OTHER TESTS	(PPM)			†		
01				† †		
		-				

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Independent Consultant	t Home Office	9			Date	11/01/2024
1						
Camada I a astian						
Sample Location mb	h_oct_2063	1433				
Sample Identification						
Lab Number		0930-1				
Total Exchange Capacit	ty (ME/100 g)	17.68				
pH (H <sub>2</sub> O 1:1)		4.8				
Organic Matter (360°C	LOI) %	10.16				
Estimated Nitrogen Rel	lease lb/A	125				
SOLUBLE S	1	11				
S MEHLICH		458				
SNOINA BRAY II	ppm of P  lb/A P as P <sub>2</sub> O <sub>5</sub>	100 279				
O HAS BRAY II	ppm of P	61				
OLSEN	lb/A P as P <sub>2</sub> O <sub>5</sub>	01				
	ppm of P					
CALCIUM*	lb/A	2384				
31E	ppm	1192				
MAGNESIUM*  POTASSIUM*  SODIUM*	<u>lb/A</u>	$\frac{290}{145}$			_	-
POTASSIUM*	lb/A	292				
CA CA LOURDSIGN	$\frac{10771}{\text{ppm}}$	$-\frac{252}{146}$		<del></del>	_	·
SODIUM*	lb/A	44				
	ppm	22				
	В	SASE SATURAT	ION PERCI	ENT		
Caldum	%	33.71				
Magnesium	%	6.83				
Potassium	%	2.12				
Sodium	%	0.54				
Other Bases Hydrogen	% %	7.80				
Tiyulogen	/0	49.00	I E I MINOR	G		
_		EXTRACTAB	LE MINOR	S		
Boron*		0.40				
Iron* (p	ppm) lese* (ppm)	184 35				
Copper*	* (nnm)	0.42				
Zinc* (p	opm)	2.32				
Alumin	um* (ppm)	801				
Colubla	Salts (mmhos/cm)					
Chloride Chloride	es (ppm)					
Chloride Chloride						

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Independer	nt Consultant Home Office	9				Date 13	1/01/2024
•							
Sample Lo	cation						
	IIIDI1_000_2004	1435					
Sample Ide	enurication						
Lab Numb	er	0931-1					
Total Exch	ange Capacity (ME/100 g)	23.85					
pH (H <sub>2</sub> O	1:1)	5.6					
Organic Ma	atter (360°C LOI) %	7.54					
Estimated 1	Nitrogen Release lb/A	113					
S	OLUBLE SULFUR* ppm	7					
NS RUS	MEHLICH III $lb/A$ P as P $_2$ O $_5$ ppm of P	453					
ANIONS	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub>	99 435					
ANIC	ppm of P	95					
ЮНО	OLSEN $lb/A P as P_2O_5$						
	ppin or 1						
	LCIUM* <u>lb/A</u>	4938		4_	ـــ		
EXCHANGABLE CATIONS	ppm	2469					
CATIONS LOS	AGNESIUM* <u>lb/A</u>	$\phantom{00000000000000000000000000000000000$		+ -	— <del>+</del>		
A D PC	OTASSIUM* lb/A	640					
CA	ppm —	$-\frac{310}{320}$		+-	-+		
ĭ SO	DDIUM* lb/A	42					
	ppm	21					
	E	ASE SATURAT	TON PERC	CENT	<u> </u>		
	ldium %	51.76					
	agnesium %	11.22					
	tassium %	3.44					
	dium % her Bases %	0.38					
	drogen %	6.20					
11)	diogen 70	27.00 EXTRACTAE	RI F MINO	PS			
	Boron* (ppm)	0.49	LE MINO	165	Т		
	Iron* (ppm)	257					
	Manganese* (ppm)	53					
	Copper* (ppm)	0.88					
	Zinc* (ppm)	3.70					
	Aluminum* (ppm)	869					
~	Soluble Salts (mmhos/cm)						
HE	Chlorides (ppm)						
OTHER TESTS							

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	9			Date 1	1/01/2024
•						
Sample	Location mbh_oct_2065	1437				
Sample	Identification	1137				
Lab Nu	mber	0022 1				
Total Ex	xchange Capacity (ME/100 g)	0932-1				
pH (H ,		18.86				
	Matter (360°C LOI) %	6.2				
	ed Nitrogen Release lb/A	5.97				
		105				
(0	W MEHLICH III lb/A Pas P. O.	7 270				
ANIONS	₩ ppm of P	59				
N	$\frac{O}{\pm}$ BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub>	266				
A	ppm of P	58				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A	4676				
	ppm	2338				
SAE NS	MAGNESIUM* lb/A	$-\frac{710}{255}$		<del></del>	_	
N 0	ppm POTASSIUM* lb/A	355 674				
CATIONS	ppm ID/A	$-\frac{674}{37}$	— —	+	- +	
×	SODIUM* lb/A	46				
	ppm	$\frac{1}{23}$		<u> </u>		
	В	ASE SATURAT	TON PERC	ENT		
	Calcium %	61.98				
	Magnesium %	15.69				
	Potassium %	4.58				
	Sodium % Other Bases %	0.53				
	Hydrogen %	5.20 12.00				
	1.jurogen /o	EXTRACTAE	BLE MINOR	es		
	Boron* (ppm)	0.53				
	Iron* (ppm)	196				
	Manganese* (ppm)	63				
-	Copper* (ppm)	0.70				
	Zinc* (ppm)	2.11				
	Aluminum* (ppm)	682				
۲,	Soluble Salts (mmhos/cm)					
HE	Chlorides (ppm)					
OTHER TESTS		<b> </b>				
		<u> </u>				<u> </u>

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	2			Date1:	1/01/2024
•						
Sample	Location mbh_oct_2066	1439				
Sample	Identification					
Lab Nu	mber	0933-1				
Total Ex	xchange Capacity (ME/100 g)	19.13				
pH (H <sub>2</sub>	O 1:1)	6.1				
Organic	Matter (360°C LOI) %	9.94				
Estimate	ed Nitrogen Release lb/A	125				
	SOLUBLE SULFUR* ppm	7				
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	256 56				
ANIONS	$\begin{array}{c} \square \\ \square $	220				
	⊕ ppm of P	48				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>					
	□ ppm of P  CALCIUM* lb/A	4816				
щ	CALCIUM ppm	$\frac{4816}{2408}$		+ $$ $+$		
ABI S	MAGNESIUM* lb/A	630				
9 N N	ppm —	315				
EXCHANGABLE CATIONS	POTASSIUM* <u>lb/A</u>	628				
N N	ppm	314				
ய்	SODIUM* <u>lb/A</u>	$\frac{1}{19}$		+ +		
		ASE SATURAT	ION PERCE	NT		
	Calcium %		TOTAL ENGL			
	Magnesium %	62.94				
	Potassium %	13.72 4.21				
	Sodium %	0.43				
	Other Bases %	5.20				
	Hydrogen %	13.50				
		EXTRACTAB	LE MINORS			
	Boron* (ppm)	0.50				
	Iron* (ppm)	174				
	Manganese* (ppm)	60				
	Copper* (ppm)	0.61				
	Zinc* (ppm) Aluminum* (ppm)	3.44 627				
	Soluble Salts (mmhos/cm)	02/		+		
ER	Chlorides (ppm)					
OTHER TESTS	emenato (ppm)					
0 =						
		-		<del>.</del>		

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	2			Date1:	1/01/2024
•						
Sample	Location mbb agt 2067					
		1441		1		
Sample	Identification					
Lab Nu	mber	0934-1				
Total Ex	xchange Capacity (ME/100 g)	22.82				
pH (H 2	O 1:1)	6.3				
Organic	Matter (360°C LOI) %	7.12				
Estimate	ed Nitrogen Release lb/A	111				
	SOLUBLE SULFUR* ppm	6				
S	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	719				
ANIONS	$ \begin{array}{ccc}                                   $	157				
AN	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	1282 280				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>	200				
	ppm of P					
	CALCIUM* lb/A	6332				
3LE	ppm	3166				
EXCHANGABLE CATIONS	MAGNESIUM* <u>lb/A</u>	$\frac{588}{294}$		+ +		
AN OI	POTASSIUM* lb/A	698				
CA.	ppm —	$\frac{1}{349}$		+ +		
EX	SODIUM* lb/A	38				
	ppm	<u> </u>				
	В	ASE SATURAT	ION PERCE	NT		
	Calcium %	69.37				
	Magnesium %	10.74				
	Potassium %	3.92				
	Sodium % Other Bases %	0.36				
	Hydrogen %	5.10 10.50				
	Tryurogen /o	EXTRACTAB	I F MINIORS			
	Boron* (ppm)	0.53	LL WIII VOIG	Т		
	Iron* (ppm)	277				
	Manganese* (ppm)	41				
	Copper* (ppm)	1.05				
	Zinc* (ppm)	3.82				
	Aluminum* (ppm)	867				
22.0	Soluble Salts (mmhos/cm)					
THE STS	Chlorides (ppm)					
OTHER TESTS						
		<u>.                                    </u>				

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	2			Date1:	1/01/2024
•						
Sample	Location mbh_oct_2068	1443				
Sample	Identification					
Lab Nu	mber	0935-1				
Total Ex	xchange Capacity (ME/100 g)	24.19				
pH (H <sub>2</sub>	O 1:1)	6.2				
Organic	Matter (360°C LOI) %	7.97				
Estimate	ed Nitrogen Release lb/A	115				
	SOLUBLE SULFUR* ppm	5				
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	632				
ANIONS	$\begin{array}{c} \square \\ \square $	138 1205				
A	ppm of P	263				
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>					
	Ppin or 1	6.4.6.0				
ш	CALCIUM* $\frac{\text{lb/A}}{\text{ppm}}$ —	$\frac{6462}{3231}$		<del>                                     </del>		
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	652				
CATIONS	ppm	$\frac{-32}{326}$		<del>                                     </del>		
AAN TI	POTASSIUM* lb/A	818				
2 2	ppm	409				
Ĥ	SODIUM* lb/A	$\frac{52}{26}$		+ +		
	ppm		ION DEDCE	NIT		
		ASE SATURAT	ION PERCE	NI		
	Calcium % Magnesium %	66.78				
	Magnesium % Potassium %	11.23				
	Sodium %	4.34 0.47				
	Other Bases %	5.20				
	Hydrogen %	12.00				
		EXTRACTAB	LE MINORS			
	Boron* (ppm)	0.52				
	Iron* (ppm)	247				
	Manganese* (ppm)	19				
	Copper* (ppm)	1.08				
	Zinc* (ppm)	4.71				
	Aluminum* (ppm)	818				
S	Soluble Salts (mmhos/cm) Chlorides (ppm)	<del>                                     </del>				
OTHER TESTS	Cinonaes (ppin)			+		
0.0		<del>                                     </del>		+		
			<u> </u>			

<sup>\*</sup> Mehlich III Extractable

Independent Consultant	Name University of California, City Santa Barbara State CA						
Sample Location   mbh_oct_2069   1445	Indepen	dent Consultant Home Office	9			Date 1	1/01/2024
Sample Identification	•						
Sample Identification	Sample	Location					
Total Exchange Capacity (ME/100 g)   22.59		IIDI1_000_2069	1445				
Total Exchange Capacity (ME/100 g)   22.59	Sample	Identification					
Description	Lab Nu	mber	0936-1				
Organic Matter (360°C LOI) %   10.90	Total Ex	xchange Capacity (ME/100 g)	22.59				
SOLUBLE SULFUR*   ppm   5	pH (H 2	O 1:1)	6.0				
SOLUBLE SULFUR*   ppm   5	Organic	Matter (360°C LOI) %	10.90				
MEHLICH III	Estimate	ed Nitrogen Release lb/A	125				
MEHLICH III   Ib/A   Pas P <sub>2</sub> O <sub>5</sub>   128   ppm of P   28   Ppm of P   32   Ppm of P   Ppm   P		1.1	5				
CALCIUM*   Ib/A   5796	S	MEHLICH III lb/A P as P₂O₅	128				
CALCIUM*   Ib/A   5796	NO	ppm of P					
CALCIUM*   Ib/A   5796	AN	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
CALCIUM*   Ib/A   5796		$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>2</sub>	32				
Potassium   Pota		± ppm of P					
BASE SATURATION PERCENT						<u> </u>	
BASE SATURATION PERCENT	3LE						
BASE SATURATION PERCENT	3AE NS				<del> </del>	<u> </u>	
BASE SATURATION PERCENT	N 0						
BASE SATURATION PERCENT	CAT CAT				+	+	
BASE SATURATION PERCENT	×						
Caldium %   64.14   11.92   Potassium %   3.19   Sodium %   0.35   Other Bases %   5.40   Hydrogen %   15.00	ш						
Magnesium %   11.92		В	ASE SATURAT	ION PERCI	ENT		
Magnesium       %         Potassium       %         Sodium       %         Other Bases       %         Hydrogen       5 . 40         Hydrogen       15 . 00         EXTRACTABLE MINORS         Boron* (ppm)       0 . 60         Iron* (ppm)       187         Manganese* (ppm)       31         Copper* (ppm)       1 . 17         Zinc* (ppm)       9 . 00         Aluminum* (ppm)       448		Caldium %	64.14				
Sodium		O .					
Other Bases         %         5.40           Hydrogen         5.40         15.00           EXTRACTABLE MINORS           Boron* (ppm)         0.60           Iron* (ppm)         187           Manganese* (ppm)         31           Copper* (ppm)         1.17           Zinc* (ppm)         9.00           Aluminum* (ppm)         448							
Hydrogen %   15.00							
EXTRACTABLE MINORS							
Boron* (ppm)   0.60		Tryurogen /o		T E MINIOD	C		
Iron* (ppm)				LE MINOR	3	1	
Manganese* (ppm)         31           Copper* (ppm)         1.17           Zinc* (ppm)         9.00           Aluminum* (ppm)         448							
Copper* (ppm)         1.17           Zinc* (ppm)         9.00           Aluminum* (ppm)         448		Iron* (ppm)					
Zinc* (ppm) 9.00 Aluminum* (ppm) 448		Copper* (ppm)					
Aluminum* (ppm) 448		Zinc* (npm)					
Colvible Colta (mmbog/m)		Aluminum* (ppm)					
Chlorides (ppm)	~	Soluble Salts (mmhos/cm)					
OTT LES	HEF TS						
	OTF ES						
			<u> </u>				<u> </u>

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	2			Date1:	1/01/2024
•						
Sample	Location mbh_oct_2070	1447				
Sample	Identification					
Lab Nu	mber	0937-1				
Total Ex	xchange Capacity (ME/100 g)	20.22				
pH (H <sub>2</sub>	O 1:1)	6.1				
Organic	Matter (360°C LOI) %	4.68				
Estimate	ed Nitrogen Release lb/A	97				
	SOLUBLE SULFUR* ppm	4				
SNS	$\stackrel{\smile}{\supseteq}  \begin{array}{ccc} \text{MEHLICH III} & & \text{lb/A} & \text{P as P}_2\text{O}_5 \\ & & \text{ppm of P} \end{array}$	156 34				
ANIONS	$\frac{O}{\pm}$ BRAY II $\frac{B}{A}$ Bray II	211				
⋖		46				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P					
	CALCIUM* lb/A	4960				
EXCHANGABLE CATIONS	ppm	2480				
CATIONS	MAGNESIUM* <u>lb/A</u>	$\phantom{00000000000000000000000000000000000$		+ +		
AN TO	POTASSIUM* lb/A	652				
CA	ppm	$\frac{-32}{326}$		<del>                                     </del>		
EX	SODIUM* lb/A	34				
	ppm	<u> </u>				
	В	ASE SATURAT	ION PERCE	NT		
	Calcium %	61.33				
	Magnesium %	15.45				
	Potassium % Sodium %	4.13				
	Other Bases %	0.37				
	Hydrogen %	5.20 13.50				
	, s	EXTRACTAB	LE MINORS			
	Boron* (ppm)	0.37		Т		
	Iron* (ppm)	169				
	Manganese* (ppm)	19				
	Copper* (ppm)	1.77				
	Zinc* (ppm)	4.60				
	Aluminum* (ppm)	569				
24 (2)	Soluble Salts (mmhos/cm) Chlorides (ppm)			1		
OTHER TESTS	Cinonues (ppin)					
O TE				+		
		<u>.</u>		<u> </u>		

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA						
Indepen	dent Consultant Home Office	2			Date 1	1/01/2024
•						
Sample	Location why age 2071	1440				
		1449				
	Identification					
Lab Nu	mber	0938-1				
Total Ex	xchange Capacity (ME/100 g)	25.51				
pH (H 2	O 1:1)	6.0				
Organic	Matter (360°C LOI) %	17.86				
Estimate	ed Nitrogen Release lb/A	129				
	SOLUBLE SULFUR* ppm	6				
S	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	128				
ANIONS	$ \begin{array}{ccc}                                   $	28 119				
	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	26				
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>					
	Ppin or 1					
1.1	CALCIUM* <u>lb/A</u>	6722			L	
EXCHANGABLE CATIONS	ppm MAGNESIUM* lb/A	33 <u>61</u> 648				
CATIONS	MAGNESIUM* <u>lb/A</u> ppm —	$\frac{1}{324}$		<del>                                     </del>	+	
AN TC	POTASSIUM* lb/A	572				
CA	ppm —	286				
EX	SODIUM* <u>lb/A</u>	32			L	
	ppm	16				
	В	ASE SATURAT	TON PERCI	ENT		
	Calcium %	65.88				
	Magnesium %	10.58				
	Potassium % Sodium %	2.87				
	Other Bases %	0.27 5.40				
	Hydrogen %	15.00				
		EXTRACTAB	LE MINOR	S		
	Boron* (ppm)	0.79			Т	
-	Iron* (ppm)	178				
	Manganese* (ppm)	44				
	Copper* (ppm)	1.22				
	Zinc* (ppm)	11.29				
	Aluminum* (ppm) Soluble Salts (mmhos/cm)	271				
ER	Chlorides (ppm)					
OTHER TESTS	стопась (ррш)	<del>                                     </del>				
0						
		•				

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa B	arbara	State	CA
Indepen	dent Consultant Home Office	9			Date _	11/01/2024
Sample 1	Location mbh_oct_2072	1451				
Sample	Identification					
Lab Nu	mber	0939-1				
Total Ex	xchange Capacity (ME/100 g)	21.43				
pH (H <sub>2</sub>	O 1:1)	5.9				
Organic	Matter (360°C LOI) %	8.80				
Estimate	ed Nitrogen Release lb/A	119				
EXCHANGABLE ANIONS CATIONS		5 188 41 238 52 52 5314 2657 578 289 468 234 468 234 38 19 3ASE SATURAT 61.99 11.24 280	ION PERCE	NT		
	Sodium % Other Bases % Hydrogen %	2.80 0.39 5.60 18.00				
	, U		BLE MINORS			
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm) Soluble Salts (mmhos/cm)	0.51 282 19 1.46 6.11 555				
OTHER TESTS	Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Independent Consultant	Home Office	9			Date 1	1/01/2024	
•							
Sample Location mbl	h 2072	1.452					
Sample Identification	h_oct_2073	1453					
Lab Number		0940-1					
Total Exchange Capacity	y (ME/100 g)	26.22					
pH (H <sub>2</sub> O 1:1)		5.5					
Organic Matter (360°C I	LOI) %	7.76					
Estimated Nitrogen Rele	ease lb/A	114					
SOLUBLE SU	* *	5					
S MEHLICH I	III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	137					
SO MEHLICH I	lb/A P as P <sub>2</sub> O <sub>5</sub>	30 142					
$\sim$	ppm of P	31					
OLSEN	lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P						
CALCIUM*	lb/A	4526		+			
	ppm —	$\frac{1323}{2263}$		<del> </del>	<del>                                     </del>		
MAGNESIUM* POTASSIUM*  SODIUM*	lb/A	1010					
MAGNESIUM* POTASSIUM*	ppm	505					
POTASSIUM*	$\frac{\text{lb/A}}{\text{nnm}}$	$-\frac{790}{25}$		<u> </u>	<u> </u>		
SODIUM*	ppm lb/A	395 64					
П 2ODIOM.	<u>ib/ A</u>	$-\frac{64}{32}$		+	<del> </del>	<del></del>	
		ASE SATURAT	TON PERCE	NT	•		
Calcium	%	43.15					
Magnesium	%	16.05					
	%	3.86					
	%	0.53					
	% %	6.40					
Hydrogen	%	30.00	OLE MINIODO				
D */	. ,	EXTRACTAB	LE MINORS	1	ı		
Boron* ()	ppm)	0.40					
Iron* (pp	se* (ppm)	192 33					
Copper*	(nnm)	0.71					
Zinc* (pp	om)	2.13					
Aluminu	m* (ppm)	608					
Coluble C	alts (mmhos/cm)						
± S Chlorides	s (ppm)						
Chlorides Chlorides							
		<u> </u>					

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	La, City _	Santa Ba	rbara	State	CA
Indepen	dent Consultant Home Office	e			Date _	11/01/2024
Sample	Location mbh_oct_2074	1455				
Sample	Identification					
Lab Nu	mber	0941-1				
Total Ex	xchange Capacity (ME/100 g)	25.95				
pH (H <sub>2</sub>	O 1:1)	5.6				
Organic	Matter (360°C LOI) %	9.70				
Estimate	ed Nitrogen Release lb/A	124				
SI	SOLUBLE SULFUR* ppm  O MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub>	7 110				
ANIONS	MEHLICH III   Ib/A   Pas P <sub>2</sub> O <sub>5</sub>   ppm of P	24 82 18				
	ppin or r					
EXCHANGABLE CATIONS	CALCIUM*         lb/A ppm           MAGNESIUM*         lb/A ppm           POTASSIUM*         lb/A ppm           SODIUM*         lb/A ppm	$ \begin{array}{r}                                     $				
	F	BASE SATURAT	TION PERCEN	ΙΤ		
	Calcium % Magnesium % Potassium % Sodium % Other Bases % Hydrogen %	46.42 16.25 3.66 0.47 6.20 27.00				
		EXTRACTAE	BLE MINORS			
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.44 196 25 0.80 2.82 590				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	La, City	Santa Bar	bara	State C	A
Indonon	ndent Consultant Home Office	2			Date 11	1/01/2024
muepen					_ Date	
	<u> </u>					
Sample	Location mbh_oct_2075	1457				
Sample	Identification					
Lab Nu	mber	0942-1				
Total E	xchange Capacity (ME/100 g)	32.91				
pH (H	O 1:1)	6.3				
Organic	Matter (360°C LOI) %	13.77				
Estimate	ed Nitrogen Release lb/A	127				
	SOLUBLE SULFUR* ppm	5				
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	169				
ANIONS	$\begin{array}{c} \simeq & \text{ppm of } P \\ \subseteq & \overline{\text{BRAY II}} & \text{lb/A} & P \text{ as } P_2 O_5 \end{array}$	37 192				
A	$\frac{\Omega}{CO}$ ppm of P	42				
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P					
	CALCIUM* lb/A	8764				
3LE	ppm	4382				
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	$-\frac{976}{400}$				
ANC	POTASSIUM* lb/A	488 1318				
CA	ppm	659				
EX	SODIUM* <u>lb/A</u>	52				
	ppm	26				
		BASE SATURAT	TION PERCENT			
	Caldium %	66.58				
	Magnesium % Potassium %	12.36				
	Sodium %	5.13 0.34				
	Other Bases %	5.10				
	Hydrogen %	10.50				
		EXTRACTAE	BLE MINORS			
	Boron* (ppm)	0.82				
	Iron* (ppm)	142				
	Manganese* (ppm)	52				
	Copper* (ppm) Zinc* (ppm)	0.88				
	Aluminum* (ppm)	467				
~	Soluble Salts (mmhos/cm)					
HEI	Chlorides (ppm)					
OTHER TESTS						
	l .					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	2			Date1:	1/01/2024	
Sample	Location mbh_oct_2076	1459					
Sample	Identification						
Lab Nu	mber	0943-1					
Total Ex	xchange Capacity (ME/100 g)	31.05					
pH (H 2	O 1:1)	6.7					
Organic	Matter (360°C LOI) %	12.03					
Estimate	ed Nitrogen Release lb/A	126					
	SOLUBLE SULFUR* ppm	5					
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	284 62					
ANIONS	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	334					
Ā	ppm of P	73					
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>						
	□ ppm of P  CALCIUM* lb/A	8570					
щ	CALCIUM Ppm	$\frac{8570}{4285}$		+ +			
ABI S	MAGNESIUM* lb/A	1002					
9 N N	ppm —	501		$\dagger \dagger$			
EXCHANGABLE CATIONS	POTASSIUM* <u>lb/A</u>	1916					
N N	ppm	958					
ш	SODIUM* <u>lb/A</u>	$-\frac{62}{31}$		+ +			
		SASE SATURAT	ION PERCEN	JT			
	Calcium %		10111 2102				
	Magnesium %	69.00 13.45					
	Potassium %	7.91					
	Sodium %	0.43					
	Other Bases %	4.70					
	Hydrogen %	4.50					
		EXTRACTAB	LE MINORS				
	Boron* (ppm)	0.86					
	Iron* (ppm)	135					
	Manganese* (ppm)	42					
	Copper* (ppm)	1.07					
	Zinc* (ppm) Aluminum* (ppm)	6.17		-			
	Soluble Salts (mmhos/cm)	7.74		+			
S	Chlorides (ppm)						
OTHER TESTS							
0_							

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	9			Date 1	1/01/2024	
•							
Sample	Location mbb agt 2077						
		1461		1			
Sample	Identification						
Lab Nu	mber	0944-1					
Total Ex	xchange Capacity (ME/100 g)	27.65					
pH (H 2	O 1:1)	6.8					
Organic	Matter (360°C LOI) %	9.11					
Estimate	ed Nitrogen Release lb/A	121					
	SOLUBLE SULFUR* ppm	4					
NS	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	261					
ANIONS	$ \begin{array}{ccc}                                   $	57 348		+			
A	ppm of P	76					
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>						
	Ppin or 1	5544					
ш	CALCIUM* $\frac{\text{lb/A}}{\text{ppm}}$ —	$\frac{7544}{3772}$		+ +			
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	1084					
16/ NO	ppm	$\frac{1}{542}$		+ +			
CATIONS	POTASSIUM* lb/A	1600		1 1			
2 2	ppm	800					
	SODIUM* lb/A	$-\frac{54}{27}$		+ +			
	ppm		TON DED CE	l l			
		ASE SATURAT	TON PERCE	NT I			
	Caldium %	68.21					
	Magnesium % Potassium %	16.34					
	Sodium %	7.42					
	Other Bases %	0.42 4.60					
	Hydrogen %	3.00					
		EXTRACTAB	LE MINORS				
	Boron* (ppm)	0.80					
-	Iron* (ppm)	164					
-	Manganese* (ppm)	21					
	Copper* (ppm)	0.76					
	Zinc* (ppm)	3.26					
	Aluminum* (ppm)	492					
24.0	Soluble Salts (mmhos/cm)						
STS	Chlorides (ppm)						
OTHER TESTS		-					
		<u>.                                    </u>					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	2			Date	11/01/2024	
•							
Sample	Location mbh_oct_2078	1463					
Sample	Identification	1403					
Lab Nu						_	
-		0945-1					
Total Ex	xchange Capacity (ME/100 g)	27.83					
pH (H <sub>2</sub>	O 1:1)	6.6					
Organic	Matter (360°C LOI) %	10.25					
Estimate	ed Nitrogen Release lb/A	125					
	SOLUBLE SULFUR* ppm	4					
NS	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	252					
ANIONS	$ \begin{array}{ccc}                                   $	55 334					
AN	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	73					
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>	, 3					
	Ppin or 1						
1.1	CALCIUM* <u>lb/A</u>	<u>7294</u>					
EXCHANGABLE CATIONS	ppm	3647					
CATIONS	MAGNESIUM* <u>lb/A</u>	<u> </u>	— —	<del></del>	-+	-	
AN I	POTASSIUM* lb/A	1430					
CA.		$\frac{1}{715}$		<del>+</del>	-+	-   — — — —	
EX	SODIUM* lb/A	46					
	ppm	23					
	В	ASE SATURAT	TON PERC	ENT			
	Calcium %	65.52					
	Magnesium %	16.74					
	Potassium %	6.59					
	Sodium % Other Bases %	0.36					
	Hydrogen %	4.80 6.00					
	1.jurogen /o	EXTRACTAB	BLE MINOR	RS .			
	Boron* (ppm)	0.76					
	Iron* (ppm)	153					
	Manganese* (ppm)	29					
	Copper* (ppm)	0.81					
	Zinc* (ppm)	4.07					
	Aluminum* (ppm)	505					
22.0	Soluble Salts (mmhos/cm)						
THE	Chlorides (ppm)						
OTHER TESTS		<del>                                     </del>					
	l				<u>l</u>		

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa Ba	arbara	State	CA
Indepen	dent Consultant Home Office	e			Date _	11/01/2024
Sample 1	Location mbh_oct_2079	1465				T
Sample	Identification					
Lab Nu	mber	0946-1				
Total Ex	xchange Capacity (ME/100 g)	27.61				
pH (H <sub>2</sub>	O 1:1)	5.9				
Organic	Matter (360°C LOI) %	9.24				
Estimate	ed Nitrogen Release lb/A	121				
ANIONS	SOLUBLE SULFUR* ppm  MEHLICH III   lb/A   P as P <sub>2</sub> O <sub>5</sub> ppm of P  BRAY II   lb/A   P as P <sub>2</sub> O <sub>5</sub> ppm of P  OLSEN   lb/A   P as P <sub>2</sub> O <sub>5</sub> ppm of P  CALCIUM*   lb/A   P as P <sub>2</sub> O <sub>5</sub> ppm of P	5 197 43 220 48				
EXCHANGABLE CATIONS	Ppm	$ \begin{array}{r}     \hline                                $				
		BASE SATURAT	TION PERCEN	NT		
	Calcium % Magnesium % Potassium % Sodium % Other Bases % Hydrogen %	56.77 13.70 5.47 0.46 5.60 18.00				
		EXTRACTAL	BLE MINORS	1		
S	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm) Soluble Salts (mmhos/cm) Chlorides (ppm)	0.45 203 27 1.01 4.23 637				
OTHER TESTS	Cinonaes (ppin)					

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	ia, City	Santa Ba	arbara	State	CA
Indepen	dent Consultant Home Office	e			Date _	11/01/2024
Sample 1	Location mbh_oct_2080	1467				
Sample 1	Identification					
Lab Nu	mber	0947-1				
Total Ex	schange Capacity (ME/100 g)	25.84				
pH (H 2	O 1:1)	6.2				
Organic	Matter (360°C LOI) %	7.92				
Estimate	ed Nitrogen Release lb/A	115				
EXCHANGABLE ANIONS CATIONS		5 302 66 380 83	——————————————————————————————————————	NT		
	Hydrogen %	5.20 12.00				
		EXTRACTAE	BLE MINORS			
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm)	0.55 216 29 1.12				
	Zinc* (ppm) Aluminum* (ppm) Soluble Salts (mmhos/cm)	4.03 676				
OTHER TESTS	Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	9			Date 1	1/01/2024	
1							
Comple	Location	<u> </u>					
Sample	Location mbh_oct_2081	1469					
Sample	Identification						
Lab Nu	mber	0948-1					
Total Ex	xchange Capacity (ME/100 g)	27.45					
pH (H 2	O 1:1)	5.4					
Organic	Matter (360°C LOI) %	9.47					
Estimate	ed Nitrogen Release lb/A	122					
	SOLUBLE SULFUR* ppm	7					
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	147					
ANIONS	$ \begin{array}{ccc}                                   $	32 119					
AN	BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	26					
	OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>	20					
	± ppm of P						
	CALCIUM* lb/A	4476					
E E	ppm	2238					
SAE NS	MAGNESIUM* <u>lb/A</u>	988					
N 0.	ppm	494					
EXCHANGABLE CATIONS	POTASSIUM* <u>lb/A</u> <u>ppm</u>	$\frac{886}{443}$		+	<del></del>		
X	SODIUM* lb/A	62					
Ш	<u>ib/ 11</u>	$-\frac{32}{31}$		+	<u> </u>		
		ASE SATURAT	ION PERCE	NT			
	Caldium %	40.77					
	Magnesium %	15.00					
	Potassium %	4.14					
	Sodium %	0.49					
	Other Bases %	6.60					
	Hydrogen %	33.00					
		EXTRACTAB	LE MINORS				
	Boron* (ppm)	0.42					
	Iron* (ppm)	200					
	Manganese* (ppm)	39					
	Copper* (ppm) Zinc* (ppm)	0.62 4.66					
	Aluminum* (ppm)	628					
	Soluble Salts (mmhos/cm)	020					
S	Chlorides (ppm)						
OTHER TESTS	3.1						
0							
•		-		_			

<sup>\*</sup> Mehlich III Extractable

Name University of California, City Santa Barbara State CA							
Indepen	dent Consultant Home Office	<u> </u>			Date 1	1/01/2024	
1							
Sample	Location why age 2002						
	DII_00t_2062	1471					
Sample	Identification						
Lab Nu	mber	0949-1					
Total Ex	xchange Capacity (ME/100 g)	22.42					
pH (H 2	O 1:1)	5.9					
Organic	Matter (360°C LOI) %	6.42					
Estimate	ed Nitrogen Release lb/A	107					
	SOLUBLE SULFUR* ppm	5					
SN	MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P	115					
ANIONS	$ \begin{array}{ccc}                                   $	25 78					
	⊕ ppm of P	17					
	$\bigcirc$ OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub>						
	□ ppm of P  CALCIUM* lb/A	4510					
щ	ppm III/A	$\frac{4510}{2255}$		<del></del>	- <del>+</del>		
EXCHANGABLE CATIONS	MAGNESIUM* lb/A	1144					
CATIONS	ppm	572					
HAI	POTASSIUM* lb/A	738					
X	ppm SODIUM* lb/A	3 <del>69</del> 64					
ш	ppm	$-\frac{64}{32}$		+	-		
		ASE SATURAT	TON PERC	ENT			
•	Caldium %	50.29					
	Magnesium %	21.26					
	Potassium %	4.22					
	Sodium %	0.62					
	Other Bases % Hydrogen %	5.60					
	Tryutogen /o	18.00 EXTRACTAB	I F MINOE	25			
	Donon* (nom)		LE WII VOI		Т		
-	Boron* (ppm) Iron* (ppm)	0.40					
	Manganese* (ppm)	14					
	Copper* (ppm)	0.81					
-	Zinc* (ppm)	2.72					
	Aluminum* (ppm)	525					
8	Soluble Salts (mmhos/cm)						
HEI	Chlorides (ppm)						
OTHER TESTS							
		<u> </u>				<u> </u>	

<sup>\*</sup> Mehlich III Extractable

Name _	University of Californ	La, City _	Santa Ba	rbara	State	CA
Indepen	dent Consultant Home Office	<u> </u>			Date _	11/01/2024
Sample 1	Location mbh_oct_2083	1473				
Sample 1	Identification					
Lab Nu	mber	0950-1				
Total Ex	xchange Capacity (ME/100 g)	22.67				
pH (H <sub>2</sub>	O 1:1)	6.1				
Organic	Matter (360°C LOI) %	8.89				
Estimate	ed Nitrogen Release lb/A	119				
EXCHANGABLE ANIONS CATIONS	SOLUBLE SULFUR* ppm    MEHLICH III	$ \begin{array}{r} 5\\ 119\\ 26\\ 115\\ 25\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$				
		BASE SATURAT	TION PERCEN	IT		
	Calcium % Magnesium % Potassium % Sodium % Other Bases % Hydrogen %	57.59 16.95 6.22 0.54 5.20 13.50				
		EXTRACTAE	BLE MINORS			
	Boron* (ppm) Iron* (ppm) Manganese* (ppm) Copper* (ppm) Zinc* (ppm) Aluminum* (ppm)	0.56 212 30 0.84 3.56 440				
OTHER TESTS	Soluble Salts (mmhos/cm) Chlorides (ppm)					

<sup>\*</sup> Mehlich III Extractable

\*\* SOIL ANALYSIS REPORT \*\*

University of California, Santa Biological Sciences; Building. 569

Santa Barbara, CA 93106-9625

Submitted By: Home Office

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

SAMPLE LOCATION: mbh_oct_2024								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
890	1355		0.86	0.22	3.91			

\*\* SOIL ANALYSIS REPORT \*\*

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

Submitted By: Home Office

SAMPL	E LOCATION:	mbn_oct_2025			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
891	1357		5.98	0.43	13.91

\*\* SOIL ANALYSIS REPORT \*\*

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	SAMPLE LOCATION: MDH_OCL_2026								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio				
892	1359		4.92	0.41	12.00				

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File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbn_oct_202/			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
893	1361		3.89	0.33	11.79

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File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

Submitted By: Home Office

TAMPIE IOGAETON: wbb --+ 2020

SAMPL	SAMPLE LOCATION: mbh_oct_2028								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio				
894	1363		4.79	0.29	16.52				

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Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL.	E LOCATION:	mbn_oct_2029			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
895	1365		5.38	0.34	15.82

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File Number: 84219

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SAMPL	E LOCATION:	mbn_oct_2030			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
896	1367		5.80	0.35	16.57

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SAMPLE LOCATION: mbh_oct_2031							
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio		
897	1369		4.93	0.29	17.00		

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SAMPLE LOCATION: mbh\_oct\_2032 Carbon C/N Ratio Nitrogen FIELD DESCRIPTION NBR (왕) (왕) 6.93 0.38 18.24 898 1371

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SAMPLE LOCATION: mbh_oct_2033							
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio		
899	1373		5.68	0.41	13.85		

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Date Received: 10/31/2024 Date Reported: 11/01/2024

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571111	an hoominon.				
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
900	1375		4.07	0.31	13.13

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Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbn_oct_2035			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
901	1377		2.88	0.25	11.52

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File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbn_oct_2036			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
902	1379		3.70	0.29	12.76

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2037								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio				
903	1381		4.58	0.32	14.31				

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPLE LOCATION: mbh_oct_2038									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio				
904	1383		3.43	0.28	12.25				

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2039								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio				
905	1385		9.88	0.54	18.30				

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPLE LOCATION: mbh_oct_2040								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
906	1387		12.22	0.73	16.74			

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPLE LOCATION: mbh_oct_2041								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
907	1389		9.93	0.62	16.02			

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2042								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio				
908	1391		6.82	0.47	14.51				

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File Number: 84219

University of California, Santa Biological Sciences; Building. 569

Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2043							
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
909	1393		7.75	0.40	19.38			

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

Submitted By: Home Office

SAMPL.	E LOCATION:	mbh_oct_2044			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
910	1395		3.98	0.36	11.06

\*\* SOIL ANALYSIS REPORT \*\*

File Number: 84219

University of California, Santa Biological Sciences; Building. 569

Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2045							
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
911	1397		3.08	0.40	7.70			

\*\* SOIL ANALYSIS REPORT \*\*

File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2046							
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
912	1399		5.79	0.39	14.85			

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2047								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio				
913	1401		4.01	0.35	11.46				

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Submitted By: Home Office

Date Received: 10/31/2024

File Number: 84219

Date Reported: 11/01/2024

SAMPLE LOCATION: mbh_oct_2048								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
914	1403		4.03	0.42	9.60			

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

Submitted By: Home Office

CAMBLE LOCATION: mbb oat 2040

SAMPL	E LOCATION:	mbn_oct_2049			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
915	1405		6.32	0.45	14.04

\*\* SOIL ANALYSIS REPORT \*\*

File Number: 84219

University of California, Santa Biological Sciences; Building. 569

Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2050							
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
916	1407		4.53	0.37	12.24			

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbn_oct_2051			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
918	1409		5.83	0.53	11.00

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbn_oct_2052			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
919	1411		8.59	0.67	12.82

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	E LOCATION:	mbh_oct_2053			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
920	1413		5.53	0.50	11.06

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2054							
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
921	1415		6.67	0.55	12.13			

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

Submitted By: Home Office

SAMPL	E LOCATION:	mbn_oct_2055			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
922	1417		5.18	0.48	10.79

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2056							
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
923	1419		5.65	0.43	13.14			

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbh_oct_2057			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
924	1421		11.09	0.66	16.80

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2058							
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
925	1423		4.17	0.40	10.42			

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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TAMPIE IOGAETON: wbb --+ 2050

SAMPL	SAMPLE LOCATION: mbh_oct_2059									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio					
926	1425		2.08	0.29	7.17					

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbn_oct_2060				
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio	
927	1427		1.85	0.27	6.85	

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbn_oct_2061				
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio	
928	1429		3.47	0.37	9.38	

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2062									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio					
929	1431		2.46	0.33	7.45					

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

Submitted By: Home Office

SAMPL	E LOCATION:	mbn_oct_2063			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
930	1433		3.28	0.37	8.86

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

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SAMPLE LOCATION: mbh\_oct\_2064 Carbon C/N Ratio Nitrogen FIELD DESCRIPTION NBR (왕) (왕) 3.70 0.39 9.49 931 1435

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbn_oct_2065				
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio	
932	1437		3.15	0.33	9.55	

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbh_oct_2066				
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio	
933	1439		4.65	0.41	11.34	

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	E LOCATION:	mbh_oct_2067			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
934	1441		3.87	0.35	11.06

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

Submitted By: Home Office

SAMPL	E LOCATION:	mbn_oct_2068				
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio	
935	1443		4.02	0.32	12.56	

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

Submitted By: Home Office

SAMPL	E LOCATION:	mbn_oct_2069			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
936	1445		5.65	0.45	12.56

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

SAMPI	SAMPLE LOCATION: mbh_oct_2070									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio					
937	1447		1.69	0.23	7.35					

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbn_oct_2071				
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio	
938	1449		9.62	0.53	18.15	

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPLE LOCATION: mbh_oct_2072									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio				
939	1451		4.92	0.39	12.62				

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	SAMPLE LOCATION: MDH_OCL_2073									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio					
940	1453		3.72	0.35	10.63					

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

Submitted By: Home Office

SAMPL	E LOCATION:	mbn_oct_2074			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
941	1455		4.67	0.40	11.67

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPLE LOCATION: mbh_oct_2075								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
942	1457		7.18	0.52	13.81			

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	E LOCATION:	mbh_oct_2076			
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
943	1459		6.88	0.51	13.49

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Santa Barbara, CA 93106-9625

File Number: 84219

0.46

Date Received: 10/31/2024 Date Reported: 11/01/2024

12.83

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944

1461

SAMPLE	LOCATION:	mbh_oct_2077			
NBR :	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio

5.90

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPLE LOCATION: mbh_oct_2078								
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio			
945	1463		5.15	0.44	11.70			

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Santa Barbara, CA 93106-9625

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Date Received: 10/31/2024

File Number: 84219

Date Reported: 11/01/2024

SAMPLE LOCATION: mbh_oct_2079									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio				
946	1465		4.48	0.34	13.18				

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

Submitted By: Home Office

SAMPL	SAMPLE LOCATION: mbn_oct_2080									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio					
947	1467		4.00	0.37	10.81					

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Santa Barbara, CA 93106-9625

File Number: 84219

Date Received: 10/31/2024 Date Reported: 11/01/2024

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SAMPL	SAMPLE LOCATION: mpn_oct_2081									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio					
948	1469		4.07	0.34	11.97					

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File Number: 84219

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Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPL	SAMPLE LOCATION: mbh_oct_2082									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio					
949	1471		2.73	0.26	10.50					

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File Number: 84219

University of California, Santa Biological Sciences; Building. 569

Date Received: 10/31/2024 Date Reported: 11/01/2024 Santa Barbara, CA 93106-9625

SAMPLE LOCATION: mbh_oct_2083									
NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio				
950	1473		3.74	0.32	11.69				