

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2024	1355				
Sample Identification							
Lab Number			0890-1				
Total Exchange Capacity (ME/100 g)			17.86				
pH (H ₂ O 1:1)			5.3				
Organic Matter (360°C LOI) %			5.82				
Estimated Nitrogen Release lb/A			104				
ANIONS	SOLUBLE SULFUR* ppm		5				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	206 45				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	293 64				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	2868 1434					
	MAGNESIUM* lb/A ppm	548 274					
	POTASSIUM* lb/A ppm	468 234					
	SODIUM* lb/A ppm	76 38					
BASE SATURATION PERCENT							
	Calcium %	40.15					
	Magnesium %	12.78					
	Potassium %	3.36					
	Sodium %	0.93					
	Other Bases %	6.80					
	Hydrogen %	36.00					
EXTRACTABLE MINORS							
	Boron* (ppm)	0.38					
	Iron* (ppm)	335					
	Manganese* (ppm)	60					
	Copper* (ppm)	0.95					
	Zinc* (ppm)	2.85					
	Aluminum* (ppm)	773					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location			mbh_oct_2025		1357				
Sample Identification									
Lab Number					0891-1				
Total Exchange Capacity (ME/100 g)					15.54				
pH (H ₂ O 1:1)					5.8				
Organic Matter (360°C LOI) %					9.72				
Estimated Nitrogen Release					lb/A	124			
ANIONS	SOLUBLE SULFUR*				ppm	5			
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	440				
				ppm of P	96				
		BRAY II	lb/A	P as P ₂ O ₅	623				
				ppm of P	136				
EXCHANGABLE CATIONS	CALCIUM*	lb/A		3592					
		ppm		1796					
	MAGNESIUM*	lb/A		404					
		ppm		202					
	POTASSIUM*	lb/A		498					
		ppm		249					
SODIUM*	lb/A		34						
	ppm		17						
BASE SATURATION PERCENT									
	Calcium	%		57.79					
	Magnesium	%		10.83					
	Potassium	%		4.11					
	Sodium	%		0.48					
	Other Bases	%		5.80					
	Hydrogen	%		21.00					
EXTRACTABLE MINORS									
	Boron* (ppm)			0.41					
	Iron* (ppm)			295					
	Manganese* (ppm)			53					
	Copper* (ppm)			0.74					
	Zinc* (ppm)			1.64					
	Aluminum* (ppm)			1014					
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2026	1359					
Sample Identification								
Lab Number			0892-1					
Total Exchange Capacity (ME/100 g)			24.09					
pH (H ₂ O 1:1)			5.7					
Organic Matter (360°C LOI) %			9.24					
Estimated Nitrogen Release lb/A			121					
ANIONS	SOLUBLE SULFUR* ppm		5					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	380					
			ppm of P	83				
		BRAY II lb/A P as P ₂ O ₅	417					
			ppm of P	91				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	5134					
		ppm	2567					
	MAGNESIUM*	lb/A	768					
		ppm	384					
	POTASSIUM*	lb/A	582					
		ppm	291					
	SODIUM*	lb/A	38					
		ppm	19					
BASE SATURATION PERCENT								
	Calcium	%	53.28					
	Magnesium	%	13.28					
	Potassium	%	3.10					
	Sodium	%	0.34					
	Other Bases	%	6.00					
	Hydrogen	%	24.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.42					
	Iron* (ppm)		276					
	Manganese* (ppm)		55					
	Copper* (ppm)		0.78					
	Zinc* (ppm)		2.73					
	Aluminum* (ppm)		795					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2027	1361				
Sample Identification							
Lab Number			0893-1				
Total Exchange Capacity (ME/100 g)			15.12				
pH (H ₂ O 1:1)			5.7				
Organic Matter (360°C LOI) %			6.60				
Estimated Nitrogen Release lb/A			108				
ANIONS	SOLUBLE SULFUR* ppm		5				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	357				
			78				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	440				
			96				
	OLSEN lb/A P as P ₂ O ₅ ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	3250				
		ppm	1625				
	MAGNESIUM*	lb/A	412				
		ppm	206				
	POTASSIUM*	lb/A	520				
		ppm	260				
	SODIUM*	lb/A	34				
		ppm	17				
BASE SATURATION PERCENT							
	Calcium	%	53.74				
	Magnesium	%	11.35				
	Potassium	%	4.41				
	Sodium	%	0.49				
	Other Bases	%	6.00				
	Hydrogen	%	24.00				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.41				
	Iron* (ppm)		268				
	Manganese* (ppm)		129				
	Copper* (ppm)		0.69				
	Zinc* (ppm)		2.17				
	Aluminum* (ppm)		903				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2028	1363					
Sample Identification								
Lab Number			0894-1					
Total Exchange Capacity (ME/100 g)			13.00					
pH (H ₂ O 1:1)			5.7					
Organic Matter (360°C LOI) %			6.90					
Estimated Nitrogen Release lb/A			110					
ANIONS	SOLUBLE SULFUR* ppm		5					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	467					
			ppm of P	102				
		BRAY II lb/A P as P ₂ O ₅	609					
			ppm of P	133				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	2714					
		ppm	1357					
	MAGNESIUM*	lb/A	392					
		ppm	196					
	POTASSIUM*	lb/A	482					
		ppm	241					
	SODIUM*	lb/A	30					
		ppm	15					
BASE SATURATION PERCENT								
	Calcium	%	52.19					
	Magnesium	%	12.56					
	Potassium	%	4.75					
	Sodium	%	0.50					
	Other Bases	%	6.00					
	Hydrogen	%	24.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.39					
	Iron* (ppm)		316					
	Manganese* (ppm)		84					
	Copper* (ppm)		0.66					
	Zinc* (ppm)		1.32					
	Aluminum* (ppm)		1137					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2029	1365					
Sample Identification								
Lab Number			0895-1					
Total Exchange Capacity (ME/100 g)			16.42					
pH (H ₂ O 1:1)			5.2					
Organic Matter (360°C LOI) %			14.10					
Estimated Nitrogen Release lb/A			127					
ANIONS	SOLUBLE SULFUR* ppm		7					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	394					
			ppm of P	86				
		BRAY II lb/A P as P ₂ O ₅	435					
			ppm of P	95				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	2408					
		ppm	1204					
	MAGNESIUM*	lb/A	462					
		ppm	231					
	POTASSIUM*	lb/A	644					
		ppm	322					
	SODIUM*	lb/A	44					
		ppm	22					
BASE SATURATION PERCENT								
	Calcium	%	36.66					
	Magnesium	%	11.72					
	Potassium	%	5.03					
	Sodium	%	0.58					
	Other Bases	%	7.00					
	Hydrogen	%	39.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.56					
	Iron* (ppm)		313					
	Manganese* (ppm)		118					
	Copper* (ppm)		0.53					
	Zinc* (ppm)		2.67					
	Aluminum* (ppm)		1129					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location			mbh_oct_2030	1367				
Sample Identification								
Lab Number				0896-1				
Total Exchange Capacity (ME/100 g)				19.65				
pH (H ₂ O 1:1)				6.0				
Organic Matter (360°C LOI) %				11.66				
Estimated Nitrogen Release				lb/A	126			
ANIONS	SOLUBLE SULFUR*			ppm	5			
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	710			
				ppm of P	155			
		BRAY II	lb/A	P as P ₂ O ₅	939			
				ppm of P	205			
EXCHANGABLE CATIONS	CALCIUM*	lb/A		4926				
		ppm		2463				
	MAGNESIUM*	lb/A		604				
		ppm		302				
	POTASSIUM*	lb/A		568				
		ppm		284				
	SODIUM*	lb/A		36				
		ppm		18				
BASE SATURATION PERCENT								
	Calcium	%		62.67				
	Magnesium	%		12.81				
	Potassium	%		3.71				
	Sodium	%		0.40				
	Other Bases	%		5.40				
	Hydrogen	%		15.00				
EXTRACTABLE MINORS								
	Boron* (ppm)			0.52				
	Iron* (ppm)			356				
	Manganese* (ppm)			79				
	Copper* (ppm)			0.49				
	Zinc* (ppm)			1.84				
	Aluminum* (ppm)			966				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2031	1369					
Sample Identification								
Lab Number			0897-1					
Total Exchange Capacity (ME/100 g)			15.93					
pH (H ₂ O 1:1)			5.8					
Organic Matter (360°C LOI) %			10.17					
Estimated Nitrogen Release lb/A			125					
ANIONS	SOLUBLE SULFUR* ppm		5					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	838					
			ppm of P	183				
		BRAY II lb/A P as P ₂ O ₅	1182					
			ppm of P	258				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	3702					
		ppm	1851					
	MAGNESIUM*	lb/A	362					
		ppm	181					
	POTASSIUM*	lb/A	642					
		ppm	321					
	SODIUM*	lb/A	34					
		ppm	17					
BASE SATURATION PERCENT								
	Calcium	%	58.10					
	Magnesium	%	9.47					
	Potassium	%	5.17					
	Sodium	%	0.46					
	Other Bases	%	5.80					
	Hydrogen	%	21.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.46					
	Iron* (ppm)		322					
	Manganese* (ppm)		107					
	Copper* (ppm)		0.48					
	Zinc* (ppm)		1.52					
	Aluminum* (ppm)		1251					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

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BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2032	1371				
Sample Identification							
Lab Number			0898-1				
Total Exchange Capacity (ME/100 g)			14.66				
pH (H ₂ O 1:1)			5.9				
Organic Matter (360°C LOI) %			11.53				
Estimated Nitrogen Release lb/A			126				
ANIONS	SOLUBLE SULFUR* ppm		6				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	147 32				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	188 41				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	3514 1757					
	MAGNESIUM* lb/A ppm	376 188					
	POTASSIUM* lb/A ppm	602 301					
	SODIUM* lb/A ppm	36 18					
BASE SATURATION PERCENT							
Calcium %			59.92				
Magnesium %			10.69				
Potassium %			5.26				
Sodium %			0.53				
Other Bases %			5.60				
Hydrogen %			18.00				
EXTRACTABLE MINORS							
Boron* (ppm)			0.41				
Iron* (ppm)			209				
Manganese* (ppm)			66				
Copper* (ppm)			0.32				
Zinc* (ppm)			1.82				
Aluminum* (ppm)			990				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location			mbh_oct_2033		1373				
Sample Identification									
Lab Number					0899-1				
Total Exchange Capacity (ME/100 g)					21.75				
pH (H ₂ O 1:1)					5.7				
Organic Matter (360°C LOI) %					11.51				
Estimated Nitrogen Release					lb/A	126			
ANIONS	SOLUBLE SULFUR*				ppm	7			
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	550				
				ppm of P	120				
		BRAY II	lb/A	P as P ₂ O ₅	756				
				ppm of P	165				
EXCHANGABLE CATIONS	CALCIUM*	lb/A		4636					
		ppm		2318					
	MAGNESIUM*	lb/A		688					
		ppm		344					
	POTASSIUM*	lb/A		544					
		ppm		272					
	SODIUM*	lb/A		34					
		ppm		17					
BASE SATURATION PERCENT									
	Calcium	%		53.29					
	Magnesium	%		13.18					
	Potassium	%		3.21					
	Sodium	%		0.34					
	Other Bases	%		6.00					
	Hydrogen	%		24.00					
EXTRACTABLE MINORS									
	Boron* (ppm)			0.37					
	Iron* (ppm)			296					
	Manganese* (ppm)			80					
	Copper* (ppm)			0.78					
	Zinc* (ppm)			1.92					
	Aluminum* (ppm)			1099					
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable

BROOKSIDE LABORATORIES, INC. 84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CA

Independent Consultant Home Office Date 11/01/2024

Sample Location				mbh_oct_2034		1375					
Sample Identification											
Lab Number						0900-1					
Total Exchange Capacity (ME/100 g)						19.32					
pH (H ₂ O 1:1)						5.7					
Organic Matter (360°C LOI) %						10.23					
Estimated Nitrogen Release				lb/A		125					
ANIONS	SOLUBLE SULFUR*			ppm		5					
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	815						
					ppm of P		178				
		BRAY II	lb/A	P as P ₂ O ₅	1049						
					ppm of P		229				
	OLSEN	lb/A	P as P ₂ O ₅								
				ppm of P							
EXCHANGABLE CATIONS	CALCIUM*			lb/A	—	4230		—	—	—	—
				ppm	—	2115		—	—	—	—
	MAGNESIUM*			lb/A	—	518		—	—	—	—
				ppm	—	259		—	—	—	—
	POTASSIUM*			lb/A	—	558		—	—	—	—
				ppm	—	279		—	—	—	—
	SODIUM*			lb/A	—	34		—	—	—	—
				ppm	—	17		—	—	—	—
BASE SATURATION PERCENT											
	Calcium	%				54.74					
	Magnesium	%				11.17					
	Potassium	%				3.70					
	Sodium	%				0.38					
	Other Bases	%				6.00					
	Hydrogen	%				24.00					
EXTRACTABLE MINORS											
	Boron* (ppm)					0.48					
	Iron* (ppm)					363					
	Manganese* (ppm)					71					
	Copper* (ppm)					0.89					
	Zinc* (ppm)					1.84					
	Aluminum* (ppm)					1050					
OTHER TESTS	Soluble Salts (mmhos/cm)										
	Chlorides (ppm)										

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2035	1377				
Sample Identification							
Lab Number			0901-1				
Total Exchange Capacity (ME/100 g)			19.59				
pH (H ₂ O 1:1)			6.0				
Organic Matter (360°C LOI) %			7.42				
Estimated Nitrogen Release lb/A			112				
ANIONS	SOLUBLE SULFUR* ppm		6				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	1255 274				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	1621 354				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	4822 2411					
	MAGNESIUM* lb/A ppm	648 324					
	POTASSIUM* lb/A ppm	596 298					
	SODIUM* lb/A ppm	36 18					
BASE SATURATION PERCENT							
Calcium %		61.54					
Magnesium %		13.78					
Potassium %		3.90					
Sodium %		0.40					
Other Bases %		5.40					
Hydrogen %		15.00					
EXTRACTABLE MINORS							
Boron* (ppm)		0.51					
Iron* (ppm)		408					
Manganese* (ppm)		54					
Copper* (ppm)		0.55					
Zinc* (ppm)		0.85					
Aluminum* (ppm)		1194					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2036	1379					
Sample Identification								
Lab Number			0902-1					
Total Exchange Capacity (ME/100 g)			18.96					
pH (H ₂ O 1:1)			5.3					
Organic Matter (360°C LOI) %			5.60					
Estimated Nitrogen Release lb/A			103					
ANIONS	SOLUBLE SULFUR* ppm		6					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	504					
			ppm of P	110				
		BRAY II lb/A P as P ₂ O ₅	669					
			ppm of P	146				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	3054					
		ppm	1527					
	MAGNESIUM*	lb/A	550					
		ppm	275					
	POTASSIUM*	lb/A	652					
		ppm	326					
	SODIUM*	lb/A	38					
		ppm	19					
BASE SATURATION PERCENT								
	Calcium	%	40.27					
	Magnesium	%	12.09					
	Potassium	%	4.41					
	Sodium	%	0.44					
	Other Bases	%	6.80					
	Hydrogen	%	36.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.41					
	Iron* (ppm)		351					
	Manganese* (ppm)		169					
	Copper* (ppm)		0.61					
	Zinc* (ppm)		3.30					
	Aluminum* (ppm)		734					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2037	1381				
Sample Identification							
Lab Number			0903-1				
Total Exchange Capacity (ME/100 g)			19.95				
pH (H ₂ O 1:1)			6.0				
Organic Matter (360°C LOI) %			8.27				
Estimated Nitrogen Release lb/A			116				
ANIONS	SOLUBLE SULFUR* ppm		6				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	1072 234				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	1150 251				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM*	lb/A ppm	4730 2365				
	MAGNESIUM*	lb/A ppm	740 370				
	POTASSIUM*	lb/A ppm	694 347				
	SODIUM*	lb/A ppm	38 19				
BASE SATURATION PERCENT							
	Calcium	%	59.27				
	Magnesium	%	15.46				
	Potassium	%	4.46				
	Sodium	%	0.41				
	Other Bases	%	5.40				
	Hydrogen	%	15.00				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.50				
	Iron* (ppm)		356				
	Manganese* (ppm)		89				
	Copper* (ppm)		0.52				
	Zinc* (ppm)		2.03				
	Aluminum* (ppm)		971				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location			mbh_oct_2038		1383				
Sample Identification									
Lab Number					0904-1				
Total Exchange Capacity (ME/100 g)					19.25				
pH (H ₂ O 1:1)					5.6				
Organic Matter (360°C LOI) %					6.17				
Estimated Nitrogen Release					lb/A	106			
ANIONS	SOLUBLE SULFUR*				ppm	6			
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	527				
				ppm of P	115				
		BRAY II	lb/A	P as P ₂ O ₅	595				
				ppm of P	130				
EXCHANGABLE CATIONS	CALCIUM*	lb/A		3900					
		ppm		1950					
	MAGNESIUM*	lb/A		544					
		ppm		272					
	POTASSIUM*	lb/A		596					
		ppm		298					
	SODIUM*	lb/A		36					
		ppm		18					
BASE SATURATION PERCENT									
	Calcium	%		50.65					
	Magnesium	%		11.77					
	Potassium	%		3.97					
	Sodium	%		0.41					
	Other Bases	%		6.20					
	Hydrogen	%		27.00					
EXTRACTABLE MINORS									
	Boron* (ppm)			0.44					
	Iron* (ppm)			342					
	Manganese* (ppm)			104					
	Copper* (ppm)			0.84					
	Zinc* (ppm)			1.99					
	Aluminum* (ppm)			928					
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2039	1385				
Sample Identification							
Lab Number			0905-1				
Total Exchange Capacity (ME/100 g)			17.05				
pH (H ₂ O 1:1)			5.7				
Organic Matter (360°C LOI) %			20.18				
Estimated Nitrogen Release lb/A			> 130				
ANIONS	SOLUBLE SULFUR* ppm		6				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	133 29				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	169 37				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	3990 1995					
	MAGNESIUM* lb/A ppm	338 169					
	POTASSIUM* lb/A ppm	374 187					
	SODIUM* lb/A ppm	34 17					
BASE SATURATION PERCENT							
	Calcium %	58.50					
	Magnesium %	8.26					
	Potassium %	2.81					
	Sodium %	0.43					
	Other Bases %	6.00					
	Hydrogen %	24.00					
EXTRACTABLE MINORS							
	Boron* (ppm)	0.44					
	Iron* (ppm)	191					
	Manganese* (ppm)	79					
	Copper* (ppm)	0.80					
	Zinc* (ppm)	1.66					
	Aluminum* (ppm)	1202					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2040	1387				
Sample Identification							
Lab Number			0906-1				
Total Exchange Capacity (ME/100 g)			16.04				
pH (H ₂ O 1:1)			5.5				
Organic Matter (360°C LOI) %			22.06				
Estimated Nitrogen Release lb/A			> 130				
ANIONS	SOLUBLE SULFUR* ppm		6				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	105 23				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	128 28				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	3458 1729					
	MAGNESIUM* lb/A ppm	258 129					
	POTASSIUM* lb/A ppm	316 158					
	SODIUM* lb/A ppm	34 17					
BASE SATURATION PERCENT							
	Calcium %		53.90				
	Magnesium %		6.70				
	Potassium %		2.53				
	Sodium %		0.46				
	Other Bases %		6.40				
	Hydrogen %		30.00				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.26				
	Iron* (ppm)		172				
	Manganese* (ppm)		97				
	Copper* (ppm)		0.61				
	Zinc* (ppm)		1.78				
	Aluminum* (ppm)		1219				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2041	1389				
Sample Identification							
Lab Number			0907-1				
Total Exchange Capacity (ME/100 g)			19.84				
pH (H ₂ O 1:1)			6.1				
Organic Matter (360°C LOI) %			19.43				
Estimated Nitrogen Release lb/A			130				
ANIONS	SOLUBLE SULFUR* ppm		6				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	41 9				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	41 9				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	5444 2722					
	MAGNESIUM* lb/A ppm	418 209					
	POTASSIUM* lb/A ppm	550 275					
	SODIUM* lb/A ppm	34 17					
BASE SATURATION PERCENT							
	Calcium %		68.60				
	Magnesium %		8.78				
	Potassium %		3.55				
	Sodium %		0.37				
	Other Bases %		5.20				
	Hydrogen %		13.50				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.40				
	Iron* (ppm)		157				
	Manganese* (ppm)		65				
	Copper* (ppm)		0.89				
	Zinc* (ppm)		1.15				
	Aluminum* (ppm)		1206				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2042	1391				
Sample Identification							
Lab Number			0908-1				
Total Exchange Capacity (ME/100 g)			17.66				
pH (H ₂ O 1:1)			5.8				
Organic Matter (360°C LOI) %			13.62				
Estimated Nitrogen Release lb/A			127				
ANIONS	SOLUBLE SULFUR* ppm		6				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	151 33				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	234 51				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	4204 2102					
	MAGNESIUM* lb/A ppm	384 192					
	POTASSIUM* lb/A ppm	574 287					
	SODIUM* lb/A ppm	36 18					
BASE SATURATION PERCENT							
	Calcium %		59.51				
	Magnesium %		9.06				
	Potassium %		4.17				
	Sodium %		0.44				
	Other Bases %		5.80				
	Hydrogen %		21.00				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.31				
	Iron* (ppm)		220				
	Manganese* (ppm)		58				
	Copper* (ppm)		0.82				
	Zinc* (ppm)		2.13				
	Aluminum* (ppm)		1021				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2043	1393					
Sample Identification								
Lab Number			0909-1					
Total Exchange Capacity (ME/100 g)			14.59					
pH (H ₂ O 1:1)			5.4					
Organic Matter (360°C LOI) %			12.56					
Estimated Nitrogen Release lb/A			126					
ANIONS	SOLUBLE SULFUR* ppm		5					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	348					
			ppm of P	76				
		BRAY II lb/A P as P ₂ O ₅	508					
			ppm of P	111				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	2716					
		ppm	1358					
	MAGNESIUM*	lb/A	320					
		ppm	160					
	POTASSIUM*	lb/A	488					
		ppm	244					
	SODIUM*	lb/A	30					
		ppm	15					
BASE SATURATION PERCENT								
	Calcium	%	46.54					
	Magnesium	%	9.14					
	Potassium	%	4.29					
	Sodium	%	0.45					
	Other Bases	%	6.60					
	Hydrogen	%	33.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.39					
	Iron* (ppm)		283					
	Manganese* (ppm)		73					
	Copper* (ppm)		0.94					
	Zinc* (ppm)		3.88					
	Aluminum* (ppm)		1234					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

BROOKSIDE LABORATORIES, INC. 84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CA

Independent Consultant Home Office Date 11/01/2024

Sample Location				mbh_oct_2044	1395				
Sample Identification									
Lab Number					0910-1				
Total Exchange Capacity (ME/100 g)					12.06				
pH (H ₂ O 1:1)					4.6				
Organic Matter (360°C LOI) %					8.87				
Estimated Nitrogen Release lb/A					119				
ANIONS	SOLUBLE SULFUR* ppm				12				
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅ ppm of P	206 45				
		BRAY II	lb/A	P as P ₂ O ₅ ppm of P	215 47				
		OLSEN	lb/A	P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM*			lb/A	1344 672				
	MAGNESIUM*			lb/A	222 111				
	POTASSIUM*			lb/A	182 91				
	SODIUM*			lb/A	74 37				
BASE SATURATION PERCENT									
	Calcium	%			27.86				
	Magnesium	%			7.67				
	Potassium	%			1.93				
	Sodium	%			1.33				
	Other Bases	%			8.20				
	Hydrogen	%			53.00				
EXTRACTABLE MINORS									
Boron* (ppm)					0.45				
Iron* (ppm)					329				
Manganese* (ppm)					18				
Copper* (ppm)					0.75				
Zinc* (ppm)					0.75				
Aluminum* (ppm)					1232				
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2045	1397					
Sample Identification								
Lab Number			0911-1					
Total Exchange Capacity (ME/100 g)			8.78					
pH (H ₂ O 1:1)			4.1					
Organic Matter (360°C LOI) %			16.34					
Estimated Nitrogen Release lb/A			128					
ANIONS	SOLUBLE SULFUR* ppm		9					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	101					
			ppm of P	22				
		BRAY II lb/A P as P ₂ O ₅	73					
			ppm of P	16				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	548					
		ppm	274					
	MAGNESIUM*	lb/A	180					
		ppm	90					
	POTASSIUM*	lb/A	94					
		ppm	47					
	SODIUM*	lb/A	92					
		ppm	46					
BASE SATURATION PERCENT								
	Calcium	%	15.60					
	Magnesium	%	8.54					
	Potassium	%	1.37					
	Sodium	%	2.28					
	Other Bases	%	9.20					
	Hydrogen	%	63.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.25					
	Iron* (ppm)		212					
	Manganese* (ppm)		7					
	Copper* (ppm)		0.47					
	Zinc* (ppm)		0.68					
	Aluminum* (ppm)		543					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location			mbh_oct_2046		1399				
Sample Identification									
Lab Number					0912-1				
Total Exchange Capacity (ME/100 g)					13.90				
pH (H ₂ O 1:1)					5.0				
Organic Matter (360°C LOI) %					4.80				
Estimated Nitrogen Release					lb/A	98			
ANIONS	SOLUBLE SULFUR*				ppm	12			
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	128				
				ppm of P	28				
		BRAY II	lb/A	P as P ₂ O ₅	87				
				ppm of P	19				
	OLSEN	lb/A	P as P ₂ O ₅						
				ppm of P					
EXCHANGABLE CATIONS	CALCIUM*				lb/A	1786			
				ppm	893				
	MAGNESIUM*				lb/A	408			
				ppm	204				
	POTASSIUM*				lb/A	196			
			ppm	98					
	SODIUM*				lb/A	92			
			ppm	46					
BASE SATURATION PERCENT									
	Calcium				%	32.12			
	Magnesium				%	12.23			
	Potassium				%	1.81			
	Sodium				%	1.44			
	Other Bases				%	7.40			
	Hydrogen				%	45.00			
EXTRACTABLE MINORS									
	Boron* (ppm)					0.39			
	Iron* (ppm)					255			
	Manganese* (ppm)					9			
	Copper* (ppm)					0.46			
	Zinc* (ppm)					0.58			
	Aluminum* (ppm)					1040			
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2047	1401					
Sample Identification								
Lab Number			0913-1					
Total Exchange Capacity (ME/100 g)			13.89					
pH (H ₂ O 1:1)			5.0					
Organic Matter (360°C LOI) %			6.89					
Estimated Nitrogen Release lb/A			109					
ANIONS	SOLUBLE SULFUR* ppm		14					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	485					
			ppm of P	106				
		BRAY II lb/A P as P ₂ O ₅	453					
			ppm of P	99				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	1708					
		ppm	854					
	MAGNESIUM*	lb/A	362					
		ppm	181					
	POTASSIUM*	lb/A	460					
		ppm	230					
	SODIUM*	lb/A	112					
		ppm	56					
BASE SATURATION PERCENT								
	Calcium	%	30.74					
	Magnesium	%	10.86					
	Potassium	%	4.25					
	Sodium	%	1.75					
	Other Bases	%	7.40					
	Hydrogen	%	45.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.49					
	Iron* (ppm)		218					
	Manganese* (ppm)		18					
	Copper* (ppm)		0.53					
	Zinc* (ppm)		1.64					
	Aluminum* (ppm)		1127					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2048	1403				
Sample Identification							
Lab Number			0914-1				
Total Exchange Capacity (ME/100 g)			10.79				
pH (H ₂ O 1:1)			4.8				
Organic Matter (360°C LOI) %			6.86				
Estimated Nitrogen Release lb/A			109				
ANIONS	SOLUBLE SULFUR* ppm		14				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	302 66				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	275 60				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	1318 659					
	MAGNESIUM* lb/A ppm	230 115					
	POTASSIUM* lb/A ppm	224 112					
	SODIUM* lb/A ppm	56 28					
BASE SATURATION PERCENT							
	Calcium %		30.54				
	Magnesium %		8.88				
	Potassium %		2.66				
	Sodium %		1.13				
	Other Bases %		7.80				
	Hydrogen %		49.00				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.36				
	Iron* (ppm)		234				
	Manganese* (ppm)		28				
	Copper* (ppm)		0.52				
	Zinc* (ppm)		2.24				
	Aluminum* (ppm)		1298				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2049	1405				
Sample Identification							
Lab Number			0915-1				
Total Exchange Capacity (ME/100 g)			10.22				
pH (H ₂ O 1:1)			4.2				
Organic Matter (360°C LOI) %			9.76				
Estimated Nitrogen Release lb/A			124				
ANIONS	SOLUBLE SULFUR* ppm		13				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	339				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	311				
		OLSEN lb/A P as P ₂ O ₅ ppm of P	68				
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	650					
		325					
	MAGNESIUM* lb/A ppm	250					
		125					
	POTASSIUM* lb/A ppm	156					
	78						
	SODIUM* lb/A ppm	92					
		46					
BASE SATURATION PERCENT							
	Calcium %	15.90					
	Magnesium %	10.19					
	Potassium %	1.96					
	Sodium %	1.96					
	Other Bases %	9.00					
	Hydrogen %	61.00					
EXTRACTABLE MINORS							
	Boron* (ppm)	0.47					
	Iron* (ppm)	315					
	Manganese* (ppm)	11					
	Copper* (ppm)	0.73					
	Zinc* (ppm)	1.39					
	Aluminum* (ppm)	940					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2050	1407					
Sample Identification								
Lab Number			0916-1					
Total Exchange Capacity (ME/100 g)			8.27					
pH (H ₂ O 1:1)			4.3					
Organic Matter (360°C LOI) %			7.78					
Estimated Nitrogen Release lb/A			114					
ANIONS	SOLUBLE SULFUR* ppm		20					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	554					
			ppm of P	121				
		BRAY II lb/A P as P ₂ O ₅	586					
			ppm of P	128				
	OLSEN lb/A P as P ₂ O ₅							
			ppm of P					
EXCHANGABLE CATIONS	CALCIUM*	lb/A	592					
		ppm	296					
	MAGNESIUM*	lb/A	200					
		ppm	100					
	POTASSIUM*	lb/A	128					
		ppm	64					
	SODIUM*	lb/A	86					
		ppm	43					
BASE SATURATION PERCENT								
	Calcium	%	17.90					
	Magnesium	%	10.08					
	Potassium	%	1.98					
	Sodium	%	2.26					
	Other Bases	%	8.80					
	Hydrogen	%	59.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.55					
	Iron* (ppm)		363					
	Manganese* (ppm)		6					
	Copper* (ppm)		1.14					
	Zinc* (ppm)		0.61					
	Aluminum* (ppm)		1426					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2051	1409					
Sample Identification								
Lab Number			0918-1					
Total Exchange Capacity (ME/100 g)			11.58					
pH (H ₂ O 1:1)			4.3					
Organic Matter (360°C LOI) %			10.37					
Estimated Nitrogen Release lb/A			125					
ANIONS	SOLUBLE SULFUR* ppm		28					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	550					
			ppm of P	120				
		BRAY II lb/A P as P ₂ O ₅	724					
			ppm of P	158				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	1116					
		ppm	558					
	MAGNESIUM*	lb/A	138					
		ppm	69					
	POTASSIUM*	lb/A	202					
		ppm	101					
	SODIUM*	lb/A	48					
		ppm	24					
BASE SATURATION PERCENT								
	Calcium	%	24.09					
	Magnesium	%	4.97					
	Potassium	%	2.24					
	Sodium	%	0.90					
	Other Bases	%	8.80					
	Hydrogen	%	59.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.54					
	Iron* (ppm)		249					
	Manganese* (ppm)		18					
	Copper* (ppm)		0.77					
	Zinc* (ppm)		0.93					
	Aluminum* (ppm)		1577					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2052	1411					
Sample Identification								
Lab Number			0919-1					
Total Exchange Capacity (ME/100 g)			15.92					
pH (H ₂ O 1:1)			4.4					
Organic Matter (360°C LOI) %			17.06					
Estimated Nitrogen Release lb/A			129					
ANIONS	SOLUBLE SULFUR* ppm		21					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	600					
			ppm of P	131				
		BRAY II lb/A P as P ₂ O ₅	362					
			ppm of P	79				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	1744					
		ppm	872					
	MAGNESIUM*	lb/A	180					
		ppm	90					
	POTASSIUM*	lb/A	146					
		ppm	73					
	SODIUM*	lb/A	82					
		ppm	41					
BASE SATURATION PERCENT								
	Calcium	%	27.39					
	Magnesium	%	4.71					
	Potassium	%	1.18					
	Sodium	%	1.12					
	Other Bases	%	8.60					
	Hydrogen	%	57.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.67					
	Iron* (ppm)		243					
	Manganese* (ppm)		37					
	Copper* (ppm)		0.78					
	Zinc* (ppm)		2.21					
	Aluminum* (ppm)		1282					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

BROOKSIDE LABORATORIES, INC. 84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CA

Independent Consultant Home Office Date 11/01/2024

Sample Location				mbh_oct_2053		1413					
Sample Identification											
Lab Number						0920-1					
Total Exchange Capacity (ME/100 g)						20.58					
pH (H ₂ O 1:1)						5.0					
Organic Matter (360°C LOI) %						9.93					
Estimated Nitrogen Release				lb/A		125					
ANIONS	SOLUBLE SULFUR*			ppm		12					
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	261						
					ppm of P		57				
		BRAY II	lb/A	P as P ₂ O ₅	82						
					ppm of P		18				
	OLSEN	lb/A	P as P ₂ O ₅								
				ppm of P							
EXCHANGABLE CATIONS	CALCIUM*			lb/A	2682						
				ppm	1341						
	MAGNESIUM*			lb/A	604						
				ppm	302						
	POTASSIUM*			lb/A	238						
				ppm	119						
	SODIUM*			lb/A	124						
				ppm	62						
BASE SATURATION PERCENT											
	Calcium		%	32.58							
	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							
OTHER TESTS	Soluble Salts (mmhos/cm)										
	Chlorides (ppm)										

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2054	1415					
Sample Identification								
Lab Number			0921-1					
Total Exchange Capacity (ME/100 g)			19.99					
pH (H ₂ O 1:1)			5.2					
Organic Matter (360°C LOI) %			13.06					
Estimated Nitrogen Release lb/A			127					
ANIONS	SOLUBLE SULFUR* ppm		10					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	215					
			ppm of P	47				
		BRAY II lb/A P as P ₂ O ₅	115					
			ppm of P	25				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	2812					
		ppm	1406					
	MAGNESIUM*	lb/A	728					
		ppm	364					
	POTASSIUM*	lb/A	242					
		ppm	121					
	SODIUM*	lb/A	194					
		ppm	97					
BASE SATURATION PERCENT								
	Calcium	%	35.17					
	Magnesium	%	15.17					
	Potassium	%	1.55					
	Sodium	%	2.11					
	Other Bases	%	7.00					
	Hydrogen	%	39.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.56					
	Iron* (ppm)		238					
	Manganese* (ppm)		13					
	Copper* (ppm)		1.11					
	Zinc* (ppm)		3.01					
	Aluminum* (ppm)		1095					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2055	1417					
Sample Identification								
Lab Number			0922-1					
Total Exchange Capacity (ME/100 g)			17.39					
pH (H ₂ O 1:1)			5.0					
Organic Matter (360°C LOI) %			11.06					
Estimated Nitrogen Release lb/A			126					
ANIONS	SOLUBLE SULFUR* ppm		15					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	197					
			ppm of P	43				
		BRAY II lb/A P as P ₂ O ₅	105					
			ppm of P	23				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	2146					
		ppm	1073					
	MAGNESIUM*	lb/A	548					
		ppm	274					
	POTASSIUM*	lb/A	224					
		ppm	112					
	SODIUM*	lb/A	158					
		ppm	79					
BASE SATURATION PERCENT								
	Calcium	%	30.85					
	Magnesium	%	13.13					
	Potassium	%	1.65					
	Sodium	%	1.98					
	Other Bases	%	7.40					
	Hydrogen	%	45.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.45					
	Iron* (ppm)		217					
	Manganese* (ppm)		11					
	Copper* (ppm)		0.52					
	Zinc* (ppm)		0.67					
	Aluminum* (ppm)		1295					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2056	1419					
Sample Identification								
Lab Number			0923-1					
Total Exchange Capacity (ME/100 g)			18.48					
pH (H ₂ O 1:1)			5.0					
Organic Matter (360°C LOI) %			10.25					
Estimated Nitrogen Release lb/A			125					
ANIONS	SOLUBLE SULFUR* ppm		15					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	408					
			ppm of P	89				
		BRAY II lb/A P as P ₂ O ₅	380					
			ppm of P	83				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	2328					
		ppm	1164					
	MAGNESIUM*	lb/A	506					
		ppm	253					
	POTASSIUM*	lb/A	446					
		ppm	223					
	SODIUM*	lb/A	136					
		ppm	68					
BASE SATURATION PERCENT								
	Calcium	%	31.49					
	Magnesium	%	11.41					
	Potassium	%	3.09					
	Sodium	%	1.60					
	Other Bases	%	7.40					
	Hydrogen	%	45.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.45					
	Iron* (ppm)		224					
	Manganese* (ppm)		23					
	Copper* (ppm)		0.35					
	Zinc* (ppm)		0.74					
	Aluminum* (ppm)		1277					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CA

Independent Consultant Home Office Date 11/01/2024

Sample Location			mbh_oct_2057		1421				
Sample Identification									
Lab Number					0924-1				
Total Exchange Capacity (ME/100 g)					14.77				
pH (H ₂ O 1:1)					4.3				
Organic Matter (360°C LOI) %					19.12				
Estimated Nitrogen Release					lb/A	130			
ANIONS	SOLUBLE SULFUR*				ppm	10			
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	169				
				ppm of P	37				
		BRAY II	lb/A	P as P ₂ O ₅	60				
				ppm of P	13				
	OLSEN	lb/A	P as P ₂ O ₅						
				ppm of P					
EXCHANGABLE CATIONS	CALCIUM*			lb/A	1238				
			ppm		619				
	MAGNESIUM*			lb/A	292				
			ppm		146				
	POTASSIUM*			lb/A	152				
			ppm		76				
SODIUM*			lb/A	114					
			ppm		57				
BASE SATURATION PERCENT									
Calcium					%	20.95			
Magnesium					%	8.24			
Potassium					%	1.32			
Sodium					%	1.68			
Other Bases					%	8.80			
Hydrogen					%	59.00			
EXTRACTABLE MINORS									
Boron* (ppm)						0.35			
Iron* (ppm)						181			
Manganese* (ppm)						22			
Copper* (ppm)						0.20			
Zinc* (ppm)						1.23			
Aluminum* (ppm)						641			
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2058	1423					
Sample Identification								
Lab Number			0925-1					
Total Exchange Capacity (ME/100 g)			12.66					
pH (H ₂ O 1:1)			5.0					
Organic Matter (360°C LOI) %			6.77					
Estimated Nitrogen Release lb/A			109					
ANIONS	SOLUBLE SULFUR* ppm		14					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	527					
			ppm of P	115				
		BRAY II lb/A P as P ₂ O ₅	348					
			ppm of P	76				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	1582					
		ppm	791					
	MAGNESIUM*	lb/A	318					
		ppm	159					
	POTASSIUM*	lb/A	414					
		ppm	207					
	SODIUM*	lb/A	100					
		ppm	50					
BASE SATURATION PERCENT								
	Calcium	%	31.24					
	Magnesium	%	10.47					
	Potassium	%	4.19					
	Sodium	%	1.72					
	Other Bases	%	7.40					
	Hydrogen	%	45.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.46					
	Iron* (ppm)		227					
	Manganese* (ppm)		20					
	Copper* (ppm)		0.31					
	Zinc* (ppm)		1.54					
	Aluminum* (ppm)		1166					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2059	1425					
Sample Identification								
Lab Number			0926-1					
Total Exchange Capacity (ME/100 g)			9.32					
pH (H ₂ O 1:1)			5.2					
Organic Matter (360°C LOI) %			3.87					
Estimated Nitrogen Release lb/A			89					
ANIONS	SOLUBLE SULFUR* ppm		11					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	394					
			ppm of P	86				
		BRAY II lb/A P as P ₂ O ₅	325					
			ppm of P	71				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	1394					
		ppm	697					
	MAGNESIUM*	lb/A	232					
		ppm	116					
	POTASSIUM*	lb/A	352					
		ppm	176					
	SODIUM*	lb/A	60					
		ppm	30					
BASE SATURATION PERCENT								
	Calcium	%	37.39					
	Magnesium	%	10.37					
	Potassium	%	4.84					
	Sodium	%	1.40					
	Other Bases	%	7.00					
	Hydrogen	%	39.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.40					
	Iron* (ppm)		278					
	Manganese* (ppm)		18					
	Copper* (ppm)		0.28					
	Zinc* (ppm)		0.57					
	Aluminum* (ppm)		1043					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2060	1427				
Sample Identification							
Lab Number			0927-1				
Total Exchange Capacity (ME/100 g)			11.24				
pH (H ₂ O 1:1)			5.1				
Organic Matter (360°C LOI) %			4.41				
Estimated Nitrogen Release lb/A			94				
ANIONS	SOLUBLE SULFUR* ppm		9				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	197 43				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	174 38				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	1636 818					
	MAGNESIUM* lb/A ppm	276 138					
	POTASSIUM* lb/A ppm	258 129					
	SODIUM* lb/A ppm	64 32					
BASE SATURATION PERCENT							
Calcium %			36.39				
Magnesium %			10.23				
Potassium %			2.94				
Sodium %			1.24				
Other Bases %			7.20				
Hydrogen %			42.00				
EXTRACTABLE MINORS							
Boron* (ppm)			0.34				
Iron* (ppm)			200				
Manganese* (ppm)			28				
Copper* (ppm)			< 0.2				
Zinc* (ppm)			0.77				
Aluminum* (ppm)			828				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2061	1429					
Sample Identification								
Lab Number			0928-1					
Total Exchange Capacity (ME/100 g)			17.41					
pH (H ₂ O 1:1)			5.2					
Organic Matter (360°C LOI) %			8.25					
Estimated Nitrogen Release lb/A			116					
ANIONS	SOLUBLE SULFUR* ppm		13					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	678					
			ppm of P	148				
		BRAY II lb/A P as P ₂ O ₅	513					
			ppm of P	112				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	2808					
		ppm	1404					
	MAGNESIUM*	lb/A	436					
		ppm	218					
	POTASSIUM*	lb/A	364					
		ppm	182					
	SODIUM*	lb/A	44					
		ppm	22					
BASE SATURATION PERCENT								
	Calcium	%	40.32					
	Magnesium	%	10.43					
	Potassium	%	2.68					
	Sodium	%	0.55					
	Other Bases	%	7.00					
	Hydrogen	%	39.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.47					
	Iron* (ppm)		199					
	Manganese* (ppm)		41					
	Copper* (ppm)		0.50					
	Zinc* (ppm)		1.27					
	Aluminum* (ppm)		823					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2062	1431					
Sample Identification								
Lab Number			0929-1					
Total Exchange Capacity (ME/100 g)			12.49					
pH (H ₂ O 1:1)			5.4					
Organic Matter (360°C LOI) %			4.93					
Estimated Nitrogen Release lb/A			99					
ANIONS	SOLUBLE SULFUR* ppm		11					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	545					
			ppm of P	119				
		BRAY II lb/A P as P ₂ O ₅	389					
			ppm of P	85				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	2124					
		ppm	1062					
	MAGNESIUM*	lb/A	400					
		ppm	200					
	POTASSIUM*	lb/A	354					
		ppm	177					
	SODIUM*	lb/A	52					
		ppm	26					
BASE SATURATION PERCENT								
	Calcium	%	42.51					
	Magnesium	%	13.34					
	Potassium	%	3.63					
	Sodium	%	0.91					
	Other Bases	%	6.60					
	Hydrogen	%	33.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.45					
	Iron* (ppm)		162					
	Manganese* (ppm)		24					
	Copper* (ppm)		0.49					
	Zinc* (ppm)		0.76					
	Aluminum* (ppm)		910					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2063	1433					
Sample Identification								
Lab Number			0930-1					
Total Exchange Capacity (ME/100 g)			17.68					
pH (H ₂ O 1:1)			4.8					
Organic Matter (360°C LOI) %			10.16					
Estimated Nitrogen Release lb/A			125					
ANIONS	SOLUBLE SULFUR* ppm		11					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	458					
			ppm of P	100				
		BRAY II lb/A P as P ₂ O ₅	279					
			ppm of P	61				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	2384					
		ppm	1192					
	MAGNESIUM*	lb/A	290					
		ppm	145					
	POTASSIUM*	lb/A	292					
		ppm	146					
	SODIUM*	lb/A	44					
		ppm	22					
BASE SATURATION PERCENT								
	Calcium	%	33.71					
	Magnesium	%	6.83					
	Potassium	%	2.12					
	Sodium	%	0.54					
	Other Bases	%	7.80					
	Hydrogen	%	49.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.40					
	Iron* (ppm)		184					
	Manganese* (ppm)		35					
	Copper* (ppm)		0.42					
	Zinc* (ppm)		2.32					
	Aluminum* (ppm)		801					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

BROOKSIDE LABORATORIES, INC. 84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CA

Independent Consultant Home Office Date 11/01/2024

Sample Location				mbh_oct_2064		1435						
Sample Identification												
Lab Number						0931-1						
Total Exchange Capacity (ME/100 g)						23.85						
pH (H ₂ O 1:1)						5.6						
Organic Matter (360°C LOI) %						7.54						
Estimated Nitrogen Release				lb/A		113						
ANIONS	SOLUBLE SULFUR*			ppm		7						
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅		453						
					ppm of P		99					
		BRAY II	lb/A	P as P ₂ O ₅		435						
					ppm of P		95					
	OLSEN	lb/A	P as P ₂ O ₅									
				ppm of P								
EXCHANGABLE CATIONS	CALCIUM*			lb/A		4938						
				ppm		2469						
	MAGNESIUM*			lb/A		642						
				ppm		321						
	POTASSIUM*			lb/A		640						
			ppm		320							
	SODIUM*			lb/A		42						
			ppm		21							
BASE SATURATION PERCENT												
	Calcium		%		51.76							
	Magnesium		%		11.22							
	Potassium		%		3.44							
	Sodium		%		0.38							
	Other Bases		%		6.20							
	Hydrogen		%		27.00							
EXTRACTABLE MINORS												
	Boron* (ppm)				0.49							
	Iron* (ppm)				257							
	Manganese* (ppm)				53							
	Copper* (ppm)				0.88							
	Zinc* (ppm)				3.70							
	Aluminum* (ppm)				869							
OTHER TESTS	Soluble Salts (mmhos/cm)											
	Chlorides (ppm)											

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2065	1437				
Sample Identification							
Lab Number			0932-1				
Total Exchange Capacity (ME/100 g)			18.86				
pH (H ₂ O 1:1)			6.2				
Organic Matter (360°C LOI) %			5.97				
Estimated Nitrogen Release lb/A			105				
ANIONS	SOLUBLE SULFUR* ppm		7				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	270 59				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	266 58				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	4676 2338					
	MAGNESIUM* lb/A ppm	710 355					
	POTASSIUM* lb/A ppm	674 337					
	SODIUM* lb/A ppm	46 23					
BASE SATURATION PERCENT							
	Calcium %	61.98					
	Magnesium %	15.69					
	Potassium %	4.58					
	Sodium %	0.53					
	Other Bases %	5.20					
	Hydrogen %	12.00					
EXTRACTABLE MINORS							
	Boron* (ppm)	0.53					
	Iron* (ppm)	196					
	Manganese* (ppm)	63					
	Copper* (ppm)	0.70					
	Zinc* (ppm)	2.11					
	Aluminum* (ppm)	682					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

BROOKSIDE LABORATORIES, INC. 84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CA

Independent Consultant Home Office Date 11/01/2024

Sample Location				mbh_oct_2066	1439				
Sample Identification									
Lab Number					0933-1				
Total Exchange Capacity (ME/100 g)					19.13				
pH (H ₂ O 1:1)					6.1				
Organic Matter (360°C LOI) %					9.94				
Estimated Nitrogen Release					lb/A	125			
ANIONS	SOLUBLE SULFUR*				ppm	7			
	PHOSPHORUS	MEHLICH III		lb/A	P as P ₂ O ₅	256			
					ppm of P	56			
		BRAY II		lb/A	P as P ₂ O ₅	220			
					ppm of P	48			
	OLSEN		lb/A	P as P ₂ O ₅					
					ppm of P				
EXCHANGABLE CATIONS	CALCIUM*				lb/A	4816			
					ppm	2408			
	MAGNESIUM*				lb/A	630			
					ppm	315			
	POTASSIUM*				lb/A	628			
				ppm	314				
SODIUM*				lb/A	38				
				ppm	19				
BASE SATURATION PERCENT									
Calcium					%	62.94			
Magnesium					%	13.72			
Potassium					%	4.21			
Sodium					%	0.43			
Other Bases					%	5.20			
Hydrogen					%	13.50			
EXTRACTABLE MINORS									
Boron* (ppm)						0.50			
Iron* (ppm)						174			
Manganese* (ppm)						60			
Copper* (ppm)						0.61			
Zinc* (ppm)						3.44			
Aluminum* (ppm)						627			
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2067	1441					
Sample Identification								
Lab Number			0934-1					
Total Exchange Capacity (ME/100 g)			22.82					
pH (H ₂ O 1:1)			6.3					
Organic Matter (360°C LOI) %			7.12					
Estimated Nitrogen Release lb/A			111					
ANIONS	SOLUBLE SULFUR* ppm		6					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	719					
			ppm of P	157				
		BRAY II lb/A P as P ₂ O ₅	1282					
			ppm of P	280				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	6332					
		ppm	3166					
	MAGNESIUM*	lb/A	588					
		ppm	294					
	POTASSIUM*	lb/A	698					
		ppm	349					
	SODIUM*	lb/A	38					
		ppm	19					
BASE SATURATION PERCENT								
	Calcium	%	69.37					
	Magnesium	%	10.74					
	Potassium	%	3.92					
	Sodium	%	0.36					
	Other Bases	%	5.10					
	Hydrogen	%	10.50					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.53					
	Iron* (ppm)		277					
	Manganese* (ppm)		41					
	Copper* (ppm)		1.05					
	Zinc* (ppm)		3.82					
	Aluminum* (ppm)		867					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2068	1443					
Sample Identification								
Lab Number			0935-1					
Total Exchange Capacity (ME/100 g)			24.19					
pH (H ₂ O 1:1)			6.2					
Organic Matter (360°C LOI) %			7.97					
Estimated Nitrogen Release lb/A			115					
ANIONS	SOLUBLE SULFUR* ppm		5					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	632					
			ppm of P	138				
		BRAY II lb/A P as P ₂ O ₅	1205					
			ppm of P	263				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	6462					
		ppm	3231					
	MAGNESIUM*	lb/A	652					
		ppm	326					
	POTASSIUM*	lb/A	818					
		ppm	409					
	SODIUM*	lb/A	52					
		ppm	26					
BASE SATURATION PERCENT								
	Calcium	%	66.78					
	Magnesium	%	11.23					
	Potassium	%	4.34					
	Sodium	%	0.47					
	Other Bases	%	5.20					
	Hydrogen	%	12.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.52					
	Iron* (ppm)		247					
	Manganese* (ppm)		19					
	Copper* (ppm)		1.08					
	Zinc* (ppm)		4.71					
	Aluminum* (ppm)		818					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2069	1445				
Sample Identification							
Lab Number			0936-1				
Total Exchange Capacity (ME/100 g)			22.59				
pH (H ₂ O 1:1)			6.0				
Organic Matter (360°C LOI) %			10.90				
Estimated Nitrogen Release lb/A			125				
ANIONS	SOLUBLE SULFUR* ppm		5				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	128 28				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	147 32				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM*	lb/A ppm	5796 2898				
	MAGNESIUM*	lb/A ppm	646 323				
	POTASSIUM*	lb/A ppm	562 281				
	SODIUM*	lb/A ppm	36 18				
BASE SATURATION PERCENT							
	Calcium	%	64.14				
	Magnesium	%	11.92				
	Potassium	%	3.19				
	Sodium	%	0.35				
	Other Bases	%	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				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2070	1447				
Sample Identification							
Lab Number			0937-1				
Total Exchange Capacity (ME/100 g)			20.22				
pH (H ₂ O 1:1)			6.1				
Organic Matter (360°C LOI) %			4.68				
Estimated Nitrogen Release lb/A			97				
ANIONS	SOLUBLE SULFUR* ppm		4				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	156 34				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	211 46				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	4960 2480					
	MAGNESIUM* lb/A ppm	750 375					
	POTASSIUM* lb/A ppm	652 326					
	SODIUM* lb/A ppm	34 17					
BASE SATURATION PERCENT							
	Calcium %	61.33					
	Magnesium %	15.45					
	Potassium %	4.13					
	Sodium %	0.37					
	Other Bases %	5.20					
	Hydrogen %	13.50					
EXTRACTABLE MINORS							
	Boron* (ppm)	0.37					
	Iron* (ppm)	169					
	Manganese* (ppm)	19					
	Copper* (ppm)	1.77					
	Zinc* (ppm)	4.60					
	Aluminum* (ppm)	569					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2071	1449				
Sample Identification							
Lab Number			0938-1				
Total Exchange Capacity (ME/100 g)			25.51				
pH (H ₂ O 1:1)			6.0				
Organic Matter (360°C LOI) %			17.86				
Estimated Nitrogen Release lb/A			129				
ANIONS	SOLUBLE SULFUR* ppm		6				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	128 28				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	119 26				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	6722 3361					
	MAGNESIUM* lb/A ppm	648 324					
	POTASSIUM* lb/A ppm	572 286					
	SODIUM* lb/A ppm	32 16					
BASE SATURATION PERCENT							
	Calcium %		65.88				
	Magnesium %		10.58				
	Potassium %		2.87				
	Sodium %		0.27				
	Other Bases %		5.40				
	Hydrogen %		15.00				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.79				
	Iron* (ppm)		178				
	Manganese* (ppm)		44				
	Copper* (ppm)		1.22				
	Zinc* (ppm)		11.29				
	Aluminum* (ppm)		271				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2072	1451					
Sample Identification								
Lab Number			0939-1					
Total Exchange Capacity (ME/100 g)			21.43					
pH (H ₂ O 1:1)			5.9					
Organic Matter (360°C LOI) %			8.80					
Estimated Nitrogen Release lb/A			119					
ANIONS	SOLUBLE SULFUR* ppm		5					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	188					
			ppm of P	41				
		BRAY II lb/A P as P ₂ O ₅	238					
			ppm of P	52				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	5314					
		ppm	2657					
	MAGNESIUM*	lb/A	578					
		ppm	289					
	POTASSIUM*	lb/A	468					
		ppm	234					
	SODIUM*	lb/A	38					
		ppm	19					
BASE SATURATION PERCENT								
	Calcium	%	61.99					
	Magnesium	%	11.24					
	Potassium	%	2.80					
	Sodium	%	0.39					
	Other Bases	%	5.60					
	Hydrogen	%	18.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.51					
	Iron* (ppm)		282					
	Manganese* (ppm)		19					
	Copper* (ppm)		1.46					
	Zinc* (ppm)		6.11					
	Aluminum* (ppm)		555					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2073	1453				
Sample Identification							
Lab Number			0940-1				
Total Exchange Capacity (ME/100 g)			26.22				
pH (H ₂ O 1:1)			5.5				
Organic Matter (360°C LOI) %			7.76				
Estimated Nitrogen Release lb/A			114				
ANIONS	SOLUBLE SULFUR* ppm		5				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	137 30				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	142 31				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	4526 2263					
	MAGNESIUM* lb/A ppm	1010 505					
	POTASSIUM* lb/A ppm	790 395					
	SODIUM* lb/A ppm	64 32					
BASE SATURATION PERCENT							
Calcium %		43.15					
Magnesium %		16.05					
Potassium %		3.86					
Sodium %		0.53					
Other Bases %		6.40					
Hydrogen %		30.00					
EXTRACTABLE MINORS							
Boron* (ppm)		0.40					
Iron* (ppm)		192					
Manganese* (ppm)		33					
Copper* (ppm)		0.71					
Zinc* (ppm)		2.13					
Aluminum* (ppm)		608					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2074	1455					
Sample Identification								
Lab Number			0941-1					
Total Exchange Capacity (ME/100 g)			25.95					
pH (H ₂ O 1:1)			5.6					
Organic Matter (360°C LOI) %			9.70					
Estimated Nitrogen Release lb/A			124					
ANIONS	SOLUBLE SULFUR* ppm		7					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	110					
			ppm of P	24				
		BRAY II lb/A P as P ₂ O ₅	82					
			ppm of P	18				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	4818					
		ppm	2409					
	MAGNESIUM*	lb/A	1012					
		ppm	506					
	POTASSIUM*	lb/A	740					
		ppm	370					
	SODIUM*	lb/A	56					
		ppm	28					
BASE SATURATION PERCENT								
	Calcium	%	46.42					
	Magnesium	%	16.25					
	Potassium	%	3.66					
	Sodium	%	0.47					
	Other Bases	%	6.20					
	Hydrogen	%	27.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.44					
	Iron* (ppm)		196					
	Manganese* (ppm)		25					
	Copper* (ppm)		0.80					
	Zinc* (ppm)		2.82					
	Aluminum* (ppm)		590					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2075	1457					
Sample Identification								
Lab Number			0942-1					
Total Exchange Capacity (ME/100 g)			32.91					
pH (H ₂ O 1:1)			6.3					
Organic Matter (360°C LOI) %			13.77					
Estimated Nitrogen Release lb/A			127					
ANIONS	SOLUBLE SULFUR* ppm		5					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	169					
			ppm of P	37				
		BRAY II lb/A P as P ₂ O ₅	192					
			ppm of P	42				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	8764					
		ppm	4382					
	MAGNESIUM*	lb/A	976					
		ppm	488					
	POTASSIUM*	lb/A	1318					
		ppm	659					
	SODIUM*	lb/A	52					
		ppm	26					
BASE SATURATION PERCENT								
	Calcium	%	66.58					
	Magnesium	%	12.36					
	Potassium	%	5.13					
	Sodium	%	0.34					
	Other Bases	%	5.10					
	Hydrogen	%	10.50					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.82					
	Iron* (ppm)		142					
	Manganese* (ppm)		52					
	Copper* (ppm)		0.88					
	Zinc* (ppm)		5.50					
	Aluminum* (ppm)		467					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2076	1459				
Sample Identification							
Lab Number			0943-1				
Total Exchange Capacity (ME/100 g)			31.05				
pH (H ₂ O 1:1)			6.7				
Organic Matter (360°C LOI) %			12.03				
Estimated Nitrogen Release lb/A			126				
ANIONS	SOLUBLE SULFUR* ppm		5				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	284 62				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	334 73				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	8570 4285					
	MAGNESIUM* lb/A ppm	1002 501					
	POTASSIUM* lb/A ppm	1916 958					
	SODIUM* lb/A ppm	62 31					
BASE SATURATION PERCENT							
Calcium %		69.00					
Magnesium %		13.45					
Potassium %		7.91					
Sodium %		0.43					
Other Bases %		4.70					
Hydrogen %		4.50					
EXTRACTABLE MINORS							
Boron* (ppm)		0.86					
Iron* (ppm)		135					
Manganese* (ppm)		42					
Copper* (ppm)		1.07					
Zinc* (ppm)		6.17					
Aluminum* (ppm)		454					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2077	1461					
Sample Identification								
Lab Number			0944-1					
Total Exchange Capacity (ME/100 g)			27.65					
pH (H ₂ O 1:1)			6.8					
Organic Matter (360°C LOI) %			9.11					
Estimated Nitrogen Release lb/A			121					
ANIONS	SOLUBLE SULFUR* ppm		4					
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅	261					
			ppm of P	57				
		BRAY II lb/A P as P ₂ O ₅	348					
			ppm of P	76				
	OLSEN lb/A P as P ₂ O ₅							
		ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A	7544					
		ppm	3772					
	MAGNESIUM*	lb/A	1084					
		ppm	542					
	POTASSIUM*	lb/A	1600					
		ppm	800					
	SODIUM*	lb/A	54					
		ppm	27					
BASE SATURATION PERCENT								
	Calcium	%	68.21					
	Magnesium	%	16.34					
	Potassium	%	7.42					
	Sodium	%	0.42					
	Other Bases	%	4.60					
	Hydrogen	%	3.00					
EXTRACTABLE MINORS								
	Boron* (ppm)		0.80					
	Iron* (ppm)		164					
	Manganese* (ppm)		21					
	Copper* (ppm)		0.76					
	Zinc* (ppm)		3.26					
	Aluminum* (ppm)		492					
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location			mbh_oct_2078		1463				
Sample Identification									
Lab Number					0945-1				
Total Exchange Capacity (ME/100 g)					27.83				
pH (H ₂ O 1:1)					6.6				
Organic Matter (360°C LOI) %					10.25				
Estimated Nitrogen Release					lb/A	125			
ANIONS	SOLUBLE SULFUR*				ppm	4			
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	252				
				ppm of P	55				
		BRAY II	lb/A	P as P ₂ O ₅	334				
				ppm of P	73				
EXCHANGABLE CATIONS	CALCIUM*	lb/A		7294					
		ppm		3647					
	MAGNESIUM*	lb/A		1118					
		ppm		559					
	POTASSIUM*	lb/A		1430					
		ppm		715					
SODIUM*	lb/A		46						
	ppm		23						
BASE SATURATION PERCENT									
	Calcium	%		65.52					
	Magnesium	%		16.74					
	Potassium	%		6.59					
	Sodium	%		0.36					
	Other Bases	%		4.80					
	Hydrogen	%		6.00					
EXTRACTABLE MINORS									
	Boron* (ppm)		0.76						
	Iron* (ppm)		153						
	Manganese* (ppm)		29						
	Copper* (ppm)		0.81						
	Zinc* (ppm)		4.07						
	Aluminum* (ppm)		505						
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2079	1465				
Sample Identification							
Lab Number			0946-1				
Total Exchange Capacity (ME/100 g)			27.61				
pH (H ₂ O 1:1)			5.9				
Organic Matter (360°C LOI) %			9.24				
Estimated Nitrogen Release lb/A			121				
ANIONS	SOLUBLE SULFUR* ppm		5				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	197 43				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	220 48				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	6270 3135					
	MAGNESIUM* lb/A ppm	908 454					
	POTASSIUM* lb/A ppm	1178 589					
	SODIUM* lb/A ppm	58 29					
BASE SATURATION PERCENT							
	Calcium %	56.77					
	Magnesium %	13.70					
	Potassium %	5.47					
	Sodium %	0.46					
	Other Bases %	5.60					
	Hydrogen %	18.00					
EXTRACTABLE MINORS							
	Boron* (ppm)	0.45					
	Iron* (ppm)	203					
	Manganese* (ppm)	27					
	Copper* (ppm)	1.01					
	Zinc* (ppm)	4.23					
	Aluminum* (ppm)	637					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location			mbh_oct_2080	1467				
Sample Identification								
Lab Number				0947-1				
Total Exchange Capacity (ME/100 g)				25.84				
pH (H ₂ O 1:1)				6.2				
Organic Matter (360°C LOI) %				7.92				
Estimated Nitrogen Release				lb/A	115			
ANIONS	SOLUBLE SULFUR*			ppm	5			
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	302			
				ppm of P	66			
		BRAY II	lb/A	P as P ₂ O ₅	380			
				ppm of P	83			
EXCHANGABLE CATIONS	CALCIUM*	lb/A		6318				
		ppm		3159				
	MAGNESIUM*	lb/A		930				
		ppm		465				
	POTASSIUM*	lb/A		1240				
		ppm		620				
SODIUM*	lb/A		64					
		ppm		32				
BASE SATURATION PERCENT								
	Calcium	%		61.13				
	Magnesium	%		15.00				
	Potassium	%		6.15				
	Sodium	%		0.54				
	Other Bases	%		5.20				
	Hydrogen	%		12.00				
EXTRACTABLE MINORS								
	Boron* (ppm)			0.55				
	Iron* (ppm)			216				
	Manganese* (ppm)			29				
	Copper* (ppm)			1.12				
	Zinc* (ppm)			4.03				
	Aluminum* (ppm)			676				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2081	1469				
Sample Identification							
Lab Number			0948-1				
Total Exchange Capacity (ME/100 g)			27.45				
pH (H ₂ O 1:1)			5.4				
Organic Matter (360°C LOI) %			9.47				
Estimated Nitrogen Release lb/A			122				
ANIONS	SOLUBLE SULFUR* ppm		7				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	147 32				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	119 26				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	4476 2238					
	MAGNESIUM* lb/A ppm	988 494					
	POTASSIUM* lb/A ppm	886 443					
	SODIUM* lb/A ppm	62 31					
BASE SATURATION PERCENT							
Calcium %		40.77					
Magnesium %		15.00					
Potassium %		4.14					
Sodium %		0.49					
Other Bases %		6.60					
Hydrogen %		33.00					
EXTRACTABLE MINORS							
Boron* (ppm)		0.42					
Iron* (ppm)		200					
Manganese* (ppm)		39					
Copper* (ppm)		0.62					
Zinc* (ppm)		4.66					
Aluminum* (ppm)		628					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

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SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location			mbh_oct_2082		1471				
Sample Identification									
Lab Number					0949-1				
Total Exchange Capacity (ME/100 g)					22.42				
pH (H ₂ O 1:1)					5.9				
Organic Matter (360°C LOI) %					6.42				
Estimated Nitrogen Release					lb/A	107			
ANIONS	SOLUBLE SULFUR*				ppm	5			
	PHOSPHORUS	MEHLICH III	lb/A	P as P ₂ O ₅	115				
				ppm of P	25				
		BRAY II	lb/A	P as P ₂ O ₅	78				
				ppm of P	17				
EXCHANGABLE CATIONS	CALCIUM*	lb/A		4510					
		ppm		2255					
	MAGNESIUM*	lb/A		1144					
		ppm		572					
	POTASSIUM*	lb/A		738					
		ppm		369					
SODIUM*	lb/A		64						
		ppm		32					
BASE SATURATION PERCENT									
	Calcium	%		50.29					
	Magnesium	%		21.26					
	Potassium	%		4.22					
	Sodium	%		0.62					
	Other Bases	%		5.60					
	Hydrogen	%		18.00					
EXTRACTABLE MINORS									
	Boron* (ppm)			0.40					
	Iron* (ppm)			187					
	Manganese* (ppm)			14					
	Copper* (ppm)			0.81					
	Zinc* (ppm)			2.72					
	Aluminum* (ppm)			525					
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)								

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

84219-5

SOIL AUDIT AND INVENTORY REPORT

Name University of California, City Santa Barbara State CAIndependent Consultant Home Office Date 11/01/2024

Sample Location		mbh_oct_2083	1473				
Sample Identification							
Lab Number			0950-1				
Total Exchange Capacity (ME/100 g)			22.67				
pH (H ₂ O 1:1)			6.1				
Organic Matter (360°C LOI) %			8.89				
Estimated Nitrogen Release lb/A			119				
ANIONS	SOLUBLE SULFUR* ppm		5				
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅ ppm of P	119 26				
		BRAY II lb/A P as P ₂ O ₅ ppm of P	115 25				
		OLSEN lb/A P as P ₂ O ₅ ppm of P					
EXCHANGABLE CATIONS	CALCIUM* lb/A ppm	5222 2611					
	MAGNESIUM* lb/A ppm	922 461					
	POTASSIUM* lb/A ppm	1100 550					
	SODIUM* lb/A ppm	56 28					
BASE SATURATION PERCENT							
	Calcium %		57.59				
	Magnesium %		16.95				
	Potassium %		6.22				
	Sodium %		0.54				
	Other Bases %		5.20				
	Hydrogen %		13.50				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.56				
	Iron* (ppm)		212				
	Manganese* (ppm)		30				
	Copper* (ppm)		0.84				
	Zinc* (ppm)		3.56				
	Aluminum* (ppm)		440				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

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** SOIL ANALYSIS REPORT **

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File Number: 84219
Date Received: 10/31/2024
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Submitted By: Home Office

SAMPLE LOCATION: mbh_oct_2024

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

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SAMPLE LOCATION: mbh_oct_2025

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
891	1357		5.98	0.43	13.91

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** SOIL ANALYSIS REPORT **

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SAMPLE LOCATION: mbh_oct_2026

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
892	1359		4.92	0.41	12.00

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** SOIL ANALYSIS REPORT **

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SAMPLE LOCATION: mbh_oct_2027

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
893	1361		3.89	0.33	11.79

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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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SAMPLE LOCATION: mbh_oct_2029

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
895	1365		5.38	0.34	15.82

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SAMPLE LOCATION: mbh_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

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
898	1371		6.93	0.38	18.24

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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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SAMPLE LOCATION: mbh_oct_2034

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

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SAMPLE LOCATION: mbh_oct_2035

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
901	1377		2.88	0.25	11.52

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SAMPLE LOCATION: mbh_oct_2036

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
902	1379		3.70	0.29	12.76

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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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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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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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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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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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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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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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SAMPLE LOCATION: mbh_oct_2044

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
910	1395		3.98	0.36	11.06

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SAMPLE LOCATION: mbh_oct_2045

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
911	1397		3.08	0.40	7.70

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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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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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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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SAMPLE LOCATION: mbh_oct_2049

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
915	1405		6.32	0.45	14.04

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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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SAMPLE LOCATION: mbh_oct_2051

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
918	1409		5.83	0.53	11.00

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SAMPLE LOCATION: mbh_oct_2052

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
919	1411		8.59	0.67	12.82

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SAMPLE LOCATION: mbh_oct_2053

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
920	1413		5.53	0.50	11.06

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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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SAMPLE LOCATION: mbh_oct_2055

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
922	1417		5.18	0.48	10.79

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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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SAMPLE LOCATION: mbh_oct_2057

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
924	1421		11.09	0.66	16.80

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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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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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SAMPLE LOCATION: mbh_oct_2060

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
927	1427		1.85	0.27	6.85

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SAMPLE LOCATION: mbh_oct_2061

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
928	1429		3.47	0.37	9.38

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Submitted By: Home Office

SAMPLE LOCATION: mbh_oct_2062

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
929	1431		2.46	0.33	7.45

BROOKSIDE LABORATORIES, INC.

** SOIL ANALYSIS REPORT **

University of California, Santa
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Santa Barbara, CA 93106-9625

File Number: 84219
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Date Reported: 11/01/2024

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SAMPLE LOCATION: mbh_oct_2063

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
930	1433		3.28	0.37	8.86

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SAMPLE LOCATION: mbh_oct_2064

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
931	1435		3.70	0.39	9.49

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SAMPLE LOCATION: mbh_oct_2065

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
932	1437		3.15	0.33	9.55

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SAMPLE LOCATION: mbh_oct_2066

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
933	1439		4.65	0.41	11.34

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SAMPLE LOCATION: mbh_oct_2067

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
934	1441		3.87	0.35	11.06

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SAMPLE LOCATION: mbh_oct_2068

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
935	1443		4.02	0.32	12.56

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SAMPLE LOCATION: mbh_oct_2069

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
936	1445		5.65	0.45	12.56

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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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SAMPLE LOCATION: mbh_oct_2071

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
938	1449		9.62	0.53	18.15

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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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SAMPLE LOCATION: mbh_oct_2073

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
940	1453		3.72	0.35	10.63

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SAMPLE LOCATION: mbh_oct_2074

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
941	1455		4.67	0.40	11.67

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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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SAMPLE LOCATION: mbh_oct_2076

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
943	1459		6.88	0.51	13.49

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SAMPLE LOCATION: mbh_oct_2077

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
944	1461		5.90	0.46	12.83

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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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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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SAMPLE LOCATION: mbh_oct_2080

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
947	1467		4.00	0.37	10.81

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SAMPLE LOCATION: mbh_oct_2081

NBR	FIELD	DESCRIPTION	Carbon (%)	Nitrogen (%)	C/N Ratio
948	1469		4.07	0.34	11.97

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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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SAMPLE LOCATION: mbh_oct_2083

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