

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

78813-3

Name Randall's Island Park Alliance City New York State NY

Independent Consultant Soil and Water Consulting Date 5/12/2023

Sample Location	BRONX SHORE	FIELDS				
Sample Identification						
Lab Number		0762-1				
Total Exchange Capacity (ME/100 g)		9.38				
pH	Buffer (SMP/Sikora)	NA				
	H ₂ O (1:1)	7.1				
Organic Matter (360°C LOI) %		5.34				
Estimated Nitrogen Release	lb/A	102				
ANIONS	SOLUBLE SULFUR*	ppm	15			
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	879 192			
	BRAY II	lb/A P as P ₂ O ₅ ppm of P				
	OLSEN	lb/A P as P ₂ O ₅ ppm of P				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	2720			
		ppm	1360			
	MAGNESIUM*	lb/A	390			
		ppm	195			
	POTASSIUM*	lb/A	282			
		ppm	141			
	SODIUM*	lb/A	86			
		ppm	43			
BASE SATURATION PERCENT						
	Calcium	%	72.49			
	Magnesium	%	17.32			
	Potassium	%	3.85			
	Sodium	%	1.99			
	Other Bases	%	4.30			
	Hydrogen	%	0.00			
EXTRACTABLE MINORS						
	Boron* (ppm)		0.70			
	Iron* (ppm)		364			
	Manganese* (ppm)		21			
	Copper* (ppm)		4.52			
	Zinc* (ppm)		10.22			
	Aluminum* (ppm)		805			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		5.2			
	NH ₄ -N (ppm)		2.8			

* Mehlich III Extractable

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Sample Location		CENTRAL FIELDS					
Sample Identification							
Lab Number		0763-1					
Total Exchange Capacity (ME/100 g)		3.93					
pH	Buffer (SMP/Sikora)	7.4					
	H ₂ O (1:1)	6.3					
Organic Matter (360°C LOI) %		2.46					
Estimated Nitrogen Release lb/A		69					
ANIONS	SOLUBLE SULFUR*						
	PHOSPHORUS	ppm	9				
		MEHLICH III lb/A P as P ₂ O ₅	1113				
		ppm of P	243				
		BRAY II lb/A P as P ₂ O ₅					
	ppm of P						
	OLSEN lb/A P as P ₂ O ₅						
	ppm of P						
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1020			
			ppm	510			
	MAGNESIUM*		lb/A	132			
			ppm	66			
	POTASSIUM*		lb/A	92			
			ppm	46			
	SODIUM*		lb/A	46			
			ppm	23			
BASE SATURATION PERCENT							
Calcium %		64.89					
Magnesium %		13.99					
Potassium %		3.00					
Sodium %		2.54					
Other Bases %		5.10					
Hydrogen %		10.50					
EXTRACTABLE MINORS							
Boron* (ppm)		0.33					
Iron* (ppm)		510					
Manganese* (ppm)		15					
Copper* (ppm)		3.71					
Zinc* (ppm)		10.60					
Aluminum* (ppm)		390					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		4.6				
	NH ₄ -N (ppm)		4.2				

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Sample Location	EAST RIVER	FIELD	FIELD	FIELD		
Sample Identification		#71	#80	#81		
Lab Number		0764-1	0765-1	0766-1		
Total Exchange Capacity (ME/100 g)		3.77	3.48	4.26		
pH	Buffer (SMP/Sikora)	7.3	7.3	7.3		
	H ₂ O (1:1)	6.4	6.1	6.1		
Organic Matter (360°C LOI) %		2.39	1.76	1.25		
Estimated Nitrogen Release	lb/A	68	55	45		
ANIONS	SOLUBLE SULFUR*					
	ppm	8	8	11		
	MEHLICH III lb/A P as P ₂ O ₅	934	1319	1287		
	ppm of P	204	288	281		
	BRAY II lb/A P as P ₂ O ₅					
	ppm of P					
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM* lb/A	980	858	1010		
	ppm	490	429	505		
	MAGNESIUM* lb/A	140	114	154		
BASE SATURATION PERCENT	ppm	70	57	77		
	POTASSIUM* lb/A	96	100	110		
	ppm	48	50	55		
	SODIUM* lb/A	40	38	70		
	ppm	20	19	35		
BASE SATURATION PERCENT						
	Calcium %	64.99	61.64	59.27		
	Magnesium %	15.47	13.65	15.06		
	Potassium %	3.26	3.68	3.31		
	Sodium %	2.31	2.37	3.57		
	Other Bases %	5.00	5.20	5.20		
	Hydrogen %	9.00	13.50	13.50		
EXTRACTABLE MINORS						
	Boron* (ppm)	0.38	0.35	0.31		
	Iron* (ppm)	474	574	534		
	Manganese* (ppm)	14	13	13		
	Copper* (ppm)	2.82	2.93	3.56		
	Zinc* (ppm)	11.36	9.29	6.99		
	Aluminum* (ppm)	331	397	430		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.3	2.7	3.5		
	NH ₄ -N (ppm)	3.8	3.4	2.6		

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Sample Location		HARLEM RIVER	EVENTS				
Sample Identification			AREA				
Lab Number			0767-1				
Total Exchange Capacity (ME/100 g)			3.92				
pH	Buffer (SMP/Sikora)		7.3				
	H ₂ O (1:1)		6.2				
Organic Matter (360°C LOI) %			1.90				
Estimated Nitrogen Release		lb/A	58				
ANIONS	SOLUBLE SULFUR*						
	PHOSPHORUS	ppm	8				
		MEHLICH III lb/A P as P ₂ O ₅	1099				
		ppm of P	240				
EXCHANGEABLE CATIONS	BRAY II	lb/A P as P ₂ O ₅					
	ppm of P						
	OLSEN	lb/A P as P ₂ O ₅					
	ppm of P						
	CALCIUM*	lb/A	1008				
	ppm	504					
	MAGNESIUM*	lb/A	124				
	ppm	62					
POTASSIUM*	lb/A	92					
ppm	46						
SODIUM*	lb/A	42					
ppm	21						
BASE SATURATION PERCENT							
Calcium		%	64.29				
Magnesium		%	13.18				
Potassium		%	3.01				
Sodium		%	2.33				
Other Bases		%	5.20				
Hydrogen		%	12.00				
EXTRACTABLE MINORS							
Boron* (ppm)			0.35				
Iron* (ppm)			556				
Manganese* (ppm)			10				
Copper* (ppm)			3.47				
Zinc* (ppm)			13.92				
Aluminum* (ppm)			356				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)			3.4			
	NH ₄ -N (ppm)			3.5			

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Sample Location	SUNKEN	MEADOWS				
Sample Identification						
Lab Number		0768-1				
Total Exchange Capacity (ME/100 g)		10.76				
pH	Buffer (SMP/Sikora)	7.3				
	H ₂ O (1:1)	6.9				
Organic Matter (360°C LOI) %		4.55				
Estimated Nitrogen Release	lb/A	96				
ANIONS	SOLUBLE SULFUR*					
	ppm	15				
	MEHLICH III lb/A P as P ₂ O ₅	1127				
	ppm of P	246				
	BRAY II lb/A P as P ₂ O ₅					
EXCHANGEABLE CATIONS	ppm of P					
	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM* lb/A	3286				
	ppm	1643				
	MAGNESIUM* lb/A	326				
	ppm	163				
	POTASSIUM* lb/A	294				
	ppm	147				
	SODIUM* lb/A	76				
	ppm	38				
BASE SATURATION PERCENT						
	Calcium %	76.35				
	Magnesium %	12.62				
	Potassium %	3.50				
	Sodium %	1.54				
	Other Bases %	4.50				
	Hydrogen %	1.50				
EXTRACTABLE MINORS						
	Boron* (ppm)	0.71				
	Iron* (ppm)	377				
	Manganese* (ppm)	49				
	Copper* (ppm)	10.43				
	Zinc* (ppm)	9.64				
	Aluminum* (ppm)	986				
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	4.7				
	NH ₄ -N (ppm)	5.9				

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Sample Location	HELL GATE	FIELDS				
Sample Identification		#62?				
Lab Number		0769-1				
Total Exchange Capacity (ME/100 g)		3.93				
pH	Buffer (SMP/Sikora)	7.3				
	H ₂ O (1:1)	6.3				
Organic Matter (360°C LOI) %		1.81				
Estimated Nitrogen Release	lb/A	56				
ANIONS	SOLUBLE SULFUR*					
	ppm	8				
	MEHLICH III lb/A P as P ₂ O ₅	1140				
	ppm of P	249				
	BRAY II lb/A P as P ₂ O ₅					
EXCHANGEABLE CATIONS	ppm of P					
	OLSEN lb/A P as P ₂ O ₅					
	ppm of P					
	CALCIUM* lb/A	1040				
	ppm	520				
	MAGNESIUM* lb/A	122				
	ppm	61				
	POTASSIUM* lb/A	98				
	ppm	49				
	SODIUM* lb/A	38				
	ppm	19				
BASE SATURATION PERCENT						
	Calcium %	66.16				
	Magnesium %	12.93				
	Potassium %	3.20				
	Sodium %	2.10				
	Other Bases %	5.10				
	Hydrogen %	10.50				
EXTRACTABLE MINORS						
	Boron* (ppm)	0.40				
	Iron* (ppm)	561				
	Manganese* (ppm)	11				
	Copper* (ppm)	2.93				
	Zinc* (ppm)	14.07				
	Aluminum* (ppm)	354				
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	4.0				
	NH ₄ -N (ppm)	4.6				

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