

RFQ COPY

TYPE NAME/ADDRESS HERE

Thermo Niton Analyzers 900 Middlesex Turnpike blgg 8 Billerica MA 01821

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

#### Request for Quotation

DEP15368

PAGE

CHUCK BOWMAN 304-558-2157

ENVIRONMENTAL PROTECTION
DEPARTMENT OF
ENVIRONMENTAL ENFORCEMENT
601 57TH STREET SE

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CHARLESTON, WV

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State of West Virginia
Department of Administration
Rurchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25205 0400 Charleston, WV 25305-0130

304-926-0499

ADDRESS CHANGES TO BE NOTED ABOVE

CHUCK BOWMAN 304-558-2157

25304

ENVIRONMENTAL PROTECTION DEPARTMENT OF ENVIRONMENTAL ENFORCEMENT 601 57TH STREET SE CHARLESTON, WV

**POBISON ANALYTICAL INC.** 900 MIDDLESEX TURNPIKE BUILDING 8 **BILLERICA MA 01821** 

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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

## GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

#### **INSTRUCTIONS TO BIDDERS**

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

# TECHNICAL SPECIFICATIONS FOR X-RAY FLUORESCENCE (XRF) ANALYZERS

**Description**: Thermo Scientific Niton® XL2 500 X-RAY Fluorescence Analyzers (hereinafter "XRF units") or equivalent.

Quantity: Seven (7) units

#### Minimum Requirements:

- 1. 45 KV/2 Watt Ag Anode X-Ray Tube
- 2. XRF units must detect the following elements, at a minimum: Sulfur (S), Potassium (K), Scandium (SC), Titanium (Ti), Vanadium (V), Chromium (Cr), Manganese (Mn), Iron (Fe), Cobalt (Co), Nickel (Ni), Copper (Cu), Zinc (Zn), Arsenic (As), Selenium (Se), Rubidium (Rb), Strontium (Sr), Zirconium (Zr), Palladium (Pd), Silver (Ag), Cadmium (Cd), Tin (Sn), Antimony (Sb), Barium (Ba), Tungston (W), Gold (Au), Mercury (Hg), Lead (Pb), Niobium (Nb), Molybdenum (Mo), Hafnium (Hf), Tantalum (Ta), Rhenium (Re), Bismuth (Bi).
- 3. Two (2) rechargeable battery packs. Batteries must support up to 10 hours of continuous operation on a single charge.
- 4. Battery Charger
- 5. AC Power Supply
- 6. Carrying Case
- 7. Shielded Belt Holster
- 8. SpectraView Element Scanner
- 9. Integrated Angled Touch Screen with Large Intuitive Color Icons
- 10. Virtual Keyboard for Data Entry
- 11. Password-protected Set-up and Operation with multiple radiation safety features.
- 12. Niton Data Transfer (NDT©) Software Suite for easy data downloading and viewing, remote control with user personal computer (PC) and grade library modification.
- 13. PC connection cable
- 14. Certified reference material and/or standard per included calibration suite
- 15. Bluetooth Wireless Connectivity
- 16. RFID for test stand recognition
- 17. Spare Polyproplylene (187-1555) window material (2)
- 18. No-charge, on-site operator training
- 19. Soil Analysis mode of operation with soil calibration for environmental assessments and metals in soils and sediments analysis at concentrations generally < 2%.
- 20. Mining Analysis mode of operation with easy to use calibration for rapid metal and mineral content analysis at concentrations > 0.1% in ore and concentrates. For analysis of mining samples including concentrates, slags, etc.
- 21. Twenty-four (24) Month Warranty

Technical Specification Requirements for XRF Analyzer WV DEP/EE/HW January 28, 2011 Page 2

- 22. Garmin 10 Global Positioning System (GPS)
- 23. Calibration of XRF units must not require a docking station or computer interface
- 24. No-charge software updates for life of analyzer
- 25. No-charge firmware updates for life of analyzer
- 26. Must operate in a portable test stand without connection to a computer
- 27. Rapid RCRA metals analysis
- 28. Low RCRA metals detection limits
- 29. XRF shell must be constructed of durable LEXAN® plastic
- 30. The XRF unit must be dust-proof and waterproof

### Bid Schedule DEP15368

w	Company Name: Thermo Niton Analyzers
	Address: 900 Middlesex Turnpike Blog 8
	Billerica MA 01821

The DEP reserves the right to request additional information and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

ITEM NO.	* QUANTITY	DESCRIPTION	EA	TOTAL
	100000000000000000000000000000000000000			
1.0	7	Fluorescence (XRF) Analyzer		\$ 167,965,00
			/	
******	·			
		TOTAL		\$ 167,965,00

If bidding an "or equal" to the basis of the specification, please indicate the manufacturer and model number in the space provided below.

Signature: <u>Jama Belier</u>

Date: <u>3/14/2011</u>

RFQ No. DEP 15368

#### STATE OF WEST VIRGINIA Purchasing Division

### **PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate. As applicable to Thermo Nitou fluctures Lac.

#### **DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

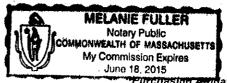
"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality, any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (**West Virginia Code** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

#### WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Thermo Niton	Avalyzers	14c		
Authorized Signature:	80	Date: <i></i>	-14-11	
State of Massachusetts				
County of Middlesex, to-wit:				-
Taken, subscribed, and sworn to before me this ///day	of March	·	_, 2011.	•
My Commission expires <u>June</u> 18	, 20 <u>/5</u>			
AFFIX SEAL HERE	NOTARY PUBLIC _	Melant	uer	



furchasing Amdavit (Revised 12/15/09)

### Bid Response for Department of Environmental **Protection of Environmental Enforcement**

Department of Environmental Protection of Environmental Enforcement

601 57th Street SE

Charleston WV 25304

Bid Response Due Date: March 16, 2011 1:30 PM

**RFQ Number DEP15368** 

Submitted by:

Thermo Niton Analyzers LLC Laura Zubiel

900 Middlesex Turnpike Bldg 8

Billerica, MA 01821

Toll Free: +1 800-875-1578

Extension 210-1359 Fax: +1 978-215-6121



Thermo NITON Analyzers LLC

900 Middlesex Turnpike Building 8

USA

Billerica, MA 01821 +1 978 670-7460 ph +1 978 670-7430 fax

www.thermo.com/niton

#### **Objective**

We are pleased to submit a proposal in support of Thermo Scientifics' Niton® XL2 500 Analyzer as the benchmark for superior analytical performance, training and support.

The Niton® XL2 500 Series x-ray fluorescence (XRF) analyzer is the solid value choice for your toughest testing applications. Where low detection limits and high sample throughput are critical, our perfect combination of hardware, software, and direct industry experience are combined to provide you with a solution to your most difficult analytical requirements. The chart below details the sensitivity, or LODs1, of the Niton XL2 500 using mining analysis for an SiO2 matrix, a typical soil matrix (SiO2 with Ca/Fe), and SRM matrix. Mining analysis is a fundamental parameters (FP) calibration offering greater flexibility and accuracy for complex or unknown grade composition as typically found in minerals and ores.

	Limits of Delection	in ppm (mg/kg)	
Time		60s per filter	
Matrix	SiO,	Soil	SRM
Ba	160	180	180
Sb	40	55	60
Sn.	40	55	60
Çd	50	55	55
Pd	30	30	30
Ag	20	30	30
Mo	A/S	AVS	A/S
Nb	30	35	₹50
Zí	20	20	25
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Co	50	320	320
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Thermo NITON Analyzers LLC

900 Middlesex Tumpike Building 8 Billerica, MA 01821

+1 978 670-7460 ph +1 978 670-7430 fax www.thermo.com/nitoл

### **Price and Technical Description**

We are pleased to provide the following quotation requested in support of our Niton XL2 500 Mining Analyzer.

Product	Standard Accessories and Features	Specifications
Niton® XL2 500 Mining Analyzer	<ul> <li>Two rechargeable 6-cell battery packs</li> <li>Battery charger; AC power supply</li> <li>Carrying case</li> <li>Shielded belt holster</li> <li>SpectraView element scanner</li> </ul>	(D) – Soil Analysis
	<ul> <li>Integrated Angled touch screen with large intuitive color icons</li> <li>"Virtual" keyboard for data entry</li> <li>Password-protected set-up and operation with several other radiation safety features</li> <li>NDT© software suite for easy data downloading and viewing, remote control and grade library modification – NO Charge Software and Firmware updates for life of analyzer</li> <li>PC connection cable</li> </ul>	(M) – Mining Analysis
	<ul> <li>Certified reference material</li> <li>Bluetooth Wireless Connectivity</li> <li>Garmin- 10 GPS System Wireless</li> <li>RFID for test stand recognition (test stand not included)</li> <li>24-month limited warranty on parts, labor and accessories</li> </ul>	Pricing for RFQ Number DEP15368
Excitation Configuration Miniaturized	<ul> <li>Spare Polypropylene (187-1555) window material (2)</li> <li>No-charge, on-site operator training included in North America</li> </ul>	XL2 500 Mining Analyzer \$23,995.00/Unit
5kV/2 Watt Ag Anode X-Ray Tube		(7) XL2 500 Mining Analyzers \$167,965.00

#### RFQ Number DEP15368

"D" ELEMENT SUITE - Standard on Niton XL2 500 Analyzer

Calibration Mode	Hardware Configuration	Source	Standard Element Set
Soils Analysis "D"	Niton XL2 500	X-Ray Tube	S, K, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Se, Rb, Sr, Zr, Pd, Ag, Cd, Sn, Sb, Ba, W, Au, Hg, Pb

Soil calibration for environmental assessments and metals in soils and sediments analysis at concentrations generally < 2%.

Certified reference standards included. Soil/Mining Kit and test stand not included.

"M" ELEMENT SUITE - Standard on Niton XL2 500 Analyzer

Calibration Mode	Hardware Configuration	Source	Standard Element Set
Mining Analysis "M"	Niton XL2 500	X-Ray Tube	S, K, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Se, Rb, Sr, Zr, Nb, Mo, Pd, Ag, Cd, Sn, Sb, Ba, Hf, Ta, Re, W, Pb, Bi

Easy to use calibration for rapid metal and mineral content analysis at concentrations >0.1% in ore and concentrates. Ideal for analysis of mining samples including concentrates, slags, etc

Certified reference standards included. Test stand and soil/mining kit not included.

Additional XL2 Included

1.1 Product n	ame and code	Specification
Garmin-10 GPS-10	1.2	Compact, lightweight and IPX7 waterproof, the GPS 10 sends GPS satellite signals to your Bluetooth equipped Niton XL3t.

Thermo NITON Analyzers LLC

900 Middlesex Tumpike Building 8

Billerica, MA 01821 USA +1 978 670-7460 ph +1 978 670-7430 fax

www.thermo.com/niton

#### **Warranty Terms Information**

### UNLESS OTHERWISE EXPRESSLY AGREED IN WRITING, ALL SALES ARE SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS:

- 1. GENERAL. Thermo NITON Analyzers LLC hereby offers for sale to the buyer named on the face hereof ("Buyer") the products listed on the face hereof (the "Products") on the express condition that Buyer agrees to accept and be bound by the terms and conditions set forth herein. Any provisions contained in any document issued by Buyer are expressly rejected and if the terms and conditions in this Agreement differ from the terms of Buyer's offer, this document shall be constnued as a counter offer and shall not be effective as an acceptance of Buyer's document. Buyer's receipt of Products or Seller's commencement of the services provided hereunder will constitute Buyer's acceptance of this Agreement. This is the complete and exclusive statement of the contract between Seller and Buyer with respect to Buyer's purchase of the Products. No waiver, consent, modification, amendment or charge of the terms contained herein shall be binding unless in writing and signed by Seller and Buyer. Seller's failure to object to terms contained in any subsequent communication from Buyer will not be a waiver or modification of the terms set forth herein. All orders are subject to acceptance in writing by an authorized more sentative of Seller.
- 2. PRICE. All prices published by Seller or quoted by Seller's representatives may be changed at any time without notice. All prices quoted by Seller or Seller's representatives are valid for thirty (30) days, unless otherwise stated in wriling. All prices for the Products will be as specified by Seller or, if no price has been specified or quoted, will be Seller's price in effect at the time of shipment. All prices are subject to adjustment on account of specifications, quantities, raw materials, cost of production, shipment arrangements or other terms or conditions, which are not part of Seller's original price quotation.
- 3. TAXES AND OTHER CHARGES. Prices for the Products exclude all sales, value added and other taxes and duties imposed with respect to the sale, delivery, or use of any Products covered hereby, all of which taxes and duties must be paid by Buyer. If Buyer claims any exemption, Buyer must provide a valid, signed certificate or letter of exemption for each respective jurisdiction. Buyer shall be solely responsible for obtaining any and all necessary licenses, registrations, certificates, permits, approvals or other authorizations required by federal, state or local statute, law or regulation pertaining to the use or possession of the products contemplated herein that include radioactive isotopes, or x-ray tubes if any.
- 4. TERMS OF PAYMENT. Seller may invoice Buyer upon shipment for the price and all other charges payable by Buyer in accordance with the terms on the face hereof, for payment terms are stated on the face hereof, payment shall be net thirty (30) days from the date of invoice. If Buyer falls to pay any amounts when due, Buyer shall pay Seller interest thereon at a periodic rate of one and one-half percent (1.5%) per month (or, if lower, the highest rate permitted by faw), together with all costs and expenses (including without limitation reasonable attorneys' fees and disbusements and count costs) incurrency. Seller in collecting such overdue amounts or otherwise enforcing Seller's rights hereunder. Seller reserves the right to require from Buyer full or partial payment in advance, or other security that its satisfactory to Seller, at any time that Seller believes in good faith that Buyer's financial condition does not justify the terms of payment specified. As payments shall be made in U.S. Deliars.
- 5. DELIVERY: CANCELLATION OR CHANGES BY BUYER. The Products will be shipped to the destination specified by Buyer, F.O.B. shipping point. Seller will have the right, at its election, to make partial shipments of the Products and to involce each shipment separately. Seller reserves the right to stop delivery of Products in transit and to withhold shipments in whole or in part if Buyer fails to make any payment to Seller when due or otherwise fails to perform its obligations hereunder. All shipping dates are approximate only, and Seller will not be liable for any loss or damage resulting from any delay in delivery or failure to deliver which is due to any cause beyond Seller's reasonable control. In the event of a delay due to any cause beyond Seller's reasonable control. In the event of a delay due to any cause beyond Seller's reasonable control. In the event of a delay due to any cause beyond Seller's reasonable control. In the event of a delay due to any cause beyond Seller's reasonable control. In the event of a delay due to any cause beyond Seller's reasonable control in the event of a delay due to any cause beyond Seller's reasonable control. In the event of a delay due to any cause beyond Seller's reasonable control, and be relied to recise delivery or of herwise believed of any obligations as the result of such delay. Products as to which delivery is delayed due to any cause within Buyer's control may be placed in storage by Seller at Buyer's fisk and expense and for Buyer's account. Orders in process may be canceled only with Seller's written consent and upon payment of Seller's cancellation charges. Orders in process may be a seller should be price therefor. Credit will not be allowed for Products returned without the prior written consent of Seller.
- 6. <u>RETURN OF PRODUCTS/RESTOCKING CHARGE.</u> Buyer must obtain permission from Seller prior to returning Products. The request must be received within ten (10) days of receipt of the Products. Older items, service parts, and discontinued items cannot be returned for credit. In order to obtain a RMA number, Buyer must contact Seller's customer support. Seller, in its discretion, may impose a twenty (20%) percent restocking charge of the price paid for any item authorized for return for credit.
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#### RFQ Number DEP15368

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#### RFQ Number DEP15368

#### **Bid Attachments**

XL2800 Specification Sheet

#### Installation and Training

No charge onsite Installation/Training will be provided by: Thermo Fisher Scientific Representative:

Adam Robison Robison Analytical, Inc. Exclusive Representative for:Thermo Scientific NITON Analyzers

10284 Oxford Dr. Pickerington, Ohio 43147 Ph: 614-604-7096 or Cell: 614-634-8082 Fax: 740-756-4346 Email: adam.robison@att.net

Free Radiation Safety Training will be provided by: Thermo Niton Analyzers, LLC Please visit www.themo.com/niton to register for upcoming classes.

#### **Important Business Information**

Tax ID# 75-3072320

Cage/Ncage Code: 01JQ0

D&B# 17-816-3093 178163093

NAICS Code: 334516

Legal Name and Address: Thermo NITON Analyzers, LLC 900 Middlesex Turnpike Bldg 8 Billerica, MA 01821

Toll Free: 800-875-1578 Main: 978-670-7460 Sales Fax: 978-215-6121

Contact Name: Laura Zubiel

Toll Free: 800-875-1578 Ext 210-1359

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3/14/2011

### Thermo Scientific Niton XL2 500 Series Mining Analyzers

Elemental Limits of Detection in SiO<sub>2</sub> and SRM Matrices Using Mining Analysis

In addition to the offices fisted below, Thermo Scientific Niton Anaylzers maintains a network of sales and service organizations throughout the world.

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Mysailiselliens atams and punigene salijaataveengy Misallypeiraassausveilislis inalliseuminen Planse veensili your losalisaltesery veensilalise incolstollis The Niton® XL2 500 Series x-ray fluorescence (XRF) analyzer is the solid value choice for your toughest testing applications. Where low detection limits and high sample throughput are critical, our perfect combination of hardware, software, and direct industry experience are combined to provide you with a solution to your most difficult analytical requirements. The chart below details the sensitivity, or LODs¹, of the Niton XL2 500 using mining analysis for an SiO₂ matrix, a typical soil matrix (SiO₂ with Ca/Fe), and SRM matrix. Mining analysis is a fundamental parameters (FP) calibration offering greater flexibility and accuracy for complex or unknown grade composition as typically found in minerals and ores.

ro 88th and		Limits of Dete	ection in ppm (mg/k	(g)
4.74	Time		60s per filte	11
	Matrix	SiO <sub>2</sub>	Soil	SRM
	Ba Sb	150	180	180
SAM	Sn .	40 40	55 24	60 0.14 00.44 408
	Cd Cd	50	55 55	6 <b>0</b> 55
	Pd	30	30	30
	Ag	20	30	30
	Mo	A/S	AVS	A/S
Same 7.5	Nb	30	35	50
	Zr	20	20	25
	Sr Rb	20	25	<b>25</b>
Nati Var	Dy Bi	20	25 25	25
	As	20	25 25	25 25
	Se	20	25	25 25
	Pb	20	20	20
	W	120	130	165
	Zn	20	25	35
i Valid	Cu	40	60	65
13316	Ni Co	60 50	80	80
Ároki.	Fe	100	320 N/A	320 807
	Mn	140	175	N/A 175
	Cr	100	125	125
	V	70	125	230
	Ti	100	160	350
el trace	Ca	280	N/A	N/A
	K	440	750	N/A
	<u> </u>	3010	4250	5200

Table 1: Element list shown is not exhaustive. For limits of detection for elements not shown, please contact a Thermo Fisher Scientific office, or your local representative.



### Limits of detection (LODs) are dependent on the following factors:

- · Testing time
- Interferences/Matrix
- · Level of statistical confidence

#### Please Note:

Ongoing research and advancements in our Niton XL2 analyzers will lead to continual improvement in many of the values detailed in this chart. Contact a Thermo Fisher Scientific office, or your local representatives for the latest performance specifications.

Element detection limits shown for 60 second/filter analysis time in air path. Please note that analysis time is based on your requirements, and, in most cases, shorter times will give you the detection limits you require. For example, if analysis time was reduced to 15 seconds/filter, then the detection limits obtained would be twice the values shown in the chart. Similarly, increasing the analysis time will reduce the detection limits by the square root of the increase factor.

Definition and Procedure for the Determination of the Method of Detection Limit, 40 CFR, Part 136, Appendix B. Revision 1.11, U.S. Environmental Protection Agency, U.S. Government Printing Office: Washington, DC, 1995.

