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LABORATORY ANALYSIS REPORT

DATE: 2010/06/03
CLIENT: Pionetics Corporation
151H Old County Road
San Carlos, CA 94070

PAGE: 1 of 7
PROJECT: 619
COLLECTED BY: AB
PROJECT REC'D: 2010-03-04
PROJECT DESC: Linx 140-120V

CONTACT: Eric Nyberg

Pace Analyticals Product Testing Division received 2 Linx 140-120V (s) for the analysis presented in the following report.

All data reported is associated with quality control that met method, EPA, NSF/ANSI or internal laboratory specification. Any exceptions are noted in a footnote or narrative format.

Pace Analytical Services, Inc. appreciates the opportunity to provide you with this product testing service. We value your feedback, would you please take a few minutes to access our customer satisfaction survey at: <http://www.pacelabs.com/my-account/customer-survey.html> . If you have any questions or comments regarding this report, please feel free to contact us.

Sincerely,

Enclosure



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PROJECT: 619

PAGE: 2 of 7

NSF/ANSI Standard 53 - 2009 Low pH Selenium Reduction

| | | |
|-----------------------|------------------------------|-------------------------------|
| Sample: 006997 | Description: Influent | Volume: 10 Unit Volume |
|-----------------------|------------------------------|-------------------------------|

| <u>Compound</u> | <u>Results</u> | <u>Units</u> | <u>Reporting Limit</u> | <u>Method</u> | <u>Date Collected</u> | <u>Date Analyzed</u> |
|-----------------------------|------------------|--------------|------------------------|---------------|-----------------------|----------------------|
| Alkalinity (wc) | 14 | mg/L | 1.0 | EPA 310.1 | 2010-05-17 | 2010-05-20 |
| Conductivity | 93 | uS/cm | 1 | EPA 120.1 | 2010-05-17 | 2010-05-17 |
| Hardness (wc) | 20.0 | mg/L | 1.0 | EPA 130.2 | 2010-05-17 | 2010-05-19 |
| Low pH Selenium | 121.00 | ug/L | 0.50 | EPA 200.8 | 2010-05-17 | 2010-05-21 |
| pH (wc) | 6.54 | (None) | NA | EPA 150.1 | 2010-05-17 | 2010-05-17 |
| Phosphorus (wc) | <0.05 | mg/L | 0.05 | SM 4500-P | 2010-05-17 | 2010-05-19 |
| Pressure (psi) | 60 | psi | NA | (None) | 2010-05-17 | 2010-05-17 |
| Temperature (wc) | 22.5 | °C | NA | EPA 150.1 | 2010-05-17 | 2010-05-17 |
| Total Dissolved Solids (wc) | 33 ¹⁶ | mg/L | 10 | EPA 160.1 | 2010-05-17 | 2010-05-28 |
| Turbidity (wc) | <1.0 | NTU | 1.0 | EPA 180.1 | 2010-05-17 | 2010-05-17 |

NSF/ANSI Standard 53 - 2009 Low pH Selenium Reduction

| | | |
|-----------------------|-------------------------------------|-------------------------------|
| Sample: 007003 | Description: Linx140-120V #3 | Volume: 10 Unit Volume |
|-----------------------|-------------------------------------|-------------------------------|

| <u>Compound</u> | <u>Results</u> | <u>Units</u> | <u>Reporting Limit</u> | <u>Method</u> | <u>Date Collected</u> | <u>Date Analyzed</u> |
|-----------------------|----------------|--------------|------------------------|---------------|-----------------------|----------------------|
| Conductivity | 4 | uS/cm | 1 | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Conductivity % Red | 96 | % | NA | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Flow Rate | 0.401 | GPM | NA | (None) | 2010-05-17 | 2010-05-17 |
| Low pH Selenium | 0.74 | ug/L | 0.50 | EPA 200.8 | 2010-05-17 | 2010-05-21 |
| Low pH Selenium % Red | >99 | % | NA | EPA 200.8 | 2010-05-17 | 2010-05-21 |

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PAGE: 5 of 7

NSF/ANSI Standard 53 - 2009 Low pH Selenium Reduction

Sample: 007010

Description: Linx140-120V #4

Volume: 8.5 Liters

| <u>Compound</u> | <u>Results</u> | <u>Units</u> | <u>Reporting</u> | | <u>Method</u> | <u>Date</u> | <u>Date</u> |
|-----------------------|----------------|--------------|------------------|------------------|---------------|-----------------|-------------|
| | | | <u>Limit</u> | <u>Collected</u> | | <u>Analyzed</u> | |
| Conductivity | 2 | uS/cm | 1 | | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Conductivity % Red | 98 | % | NA | | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Flow Rate | 0.361 | GPM | NA | | (None) | 2010-05-17 | 2010-05-17 |
| Low pH Selenium | 1.20 | ug/L | 0.50 | | EPA 200.8 | 2010-05-17 | 2010-05-21 |
| Low pH Selenium % Red | 99.0 | % | NA | | EPA 200.8 | 2010-05-17 | 2010-05-21 |

NSF/ANSI Standard 53 - 2009 Low pH Selenium Reduction

Sample: 007011

Description: Linx140-120V #3

Volume: 11.4 Liters

| <u>Compound</u> | <u>Results</u> | <u>Units</u> | <u>Reporting</u> | | <u>Method</u> | <u>Date</u> | <u>Date</u> |
|-----------------------|----------------|--------------|------------------|------------------|---------------|-----------------|-------------|
| | | | <u>Limit</u> | <u>Collected</u> | | <u>Analyzed</u> | |
| Conductivity | 2 | uS/cm | 1 | | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Conductivity % Red | 98 | % | NA | | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Flow Rate | 0.401 | GPM | NA | | (None) | 2010-05-17 | 2010-05-17 |
| Low pH Selenium | 1.70 | ug/L | 0.50 | | EPA 200.8 | 2010-05-17 | 2010-05-21 |
| Low pH Selenium % Red | 98.6 | % | NA | | EPA 200.8 | 2010-05-17 | 2010-05-21 |

NSF/ANSI Standard 53 - 2009 Low pH Selenium Reduction

Sample: 007012

Description: Linx140-120V #4

Volume: 11.4 Liters

| <u>Compound</u> | <u>Results</u> | <u>Units</u> | <u>Reporting</u> | | <u>Method</u> | <u>Date</u> | <u>Date</u> |
|-----------------------|----------------|--------------|------------------|------------------|---------------|-----------------|-------------|
| | | | <u>Limit</u> | <u>Collected</u> | | <u>Analyzed</u> | |
| Conductivity | 2 | uS/cm | 1 | | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Conductivity % Red | 98 | % | NA | | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Flow Rate | 0.361 | GPM | NA | | (None) | 2010-05-17 | 2010-05-17 |
| Low pH Selenium | 1.50 | ug/L | 0.50 | | EPA 200.8 | 2010-05-17 | 2010-05-21 |
| Low pH Selenium % Red | 98.8 | % | NA | | EPA 200.8 | 2010-05-17 | 2010-05-21 |



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PAGE: 6 of 7

NSF/ANSI Standard 53 - 2009 Low pH Selenium Reduction

| | | |
|-----------------------|-------------------------------------|----------------------------|
| Sample: 007013 | Description: Linx140-120V #3 | Volume: 13.6 Liters |
|-----------------------|-------------------------------------|----------------------------|

| <u>Compound</u> | <u>Results</u> | <u>Units</u> | <u>Reporting Limit</u> | <u>Method</u> | <u>Date Collected</u> | <u>Date Analyzed</u> |
|-----------------------|----------------|--------------|------------------------|---------------|-----------------------|----------------------|
| Conductivity | 2 | uS/cm | 1 | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Conductivity % Red | 98 | % | NA | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Flow Rate | 0.401 | GPM | NA | (None) | 2010-05-17 | 2010-05-17 |
| Low pH Selenium | 1.70 | ug/L | 0.50 | EPA 200.8 | 2010-05-17 | 2010-05-21 |
| Low pH Selenium % Red | 98.6 | % | NA | EPA 200.8 | 2010-05-17 | 2010-05-21 |

NSF/ANSI Standard 53 - 2009 Low pH Selenium Reduction

| | | |
|-----------------------|-------------------------------------|----------------------------|
| Sample: 007014 | Description: Linx140-120V #4 | Volume: 13.6 Liters |
|-----------------------|-------------------------------------|----------------------------|

| <u>Compound</u> | <u>Results</u> | <u>Units</u> | <u>Reporting Limit</u> | <u>Method</u> | <u>Date Collected</u> | <u>Date Analyzed</u> |
|-----------------------|----------------|--------------|------------------------|---------------|-----------------------|----------------------|
| Conductivity | 2 | uS/cm | 1 | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Conductivity % Red | 98 | % | NA | EPA 120.1 | 2010-05-17 | 2010-05-18 |
| Flow Rate | 0.361 | GPM | NA | (None) | 2010-05-17 | 2010-05-17 |
| Low pH Selenium | 1.30 | ug/L | 0.50 | EPA 200.8 | 2010-05-17 | 2010-05-21 |
| Low pH Selenium % Red | 98.9 | % | NA | EPA 200.8 | 2010-05-17 | 2010-05-21 |



PERFORMANCE SUMMARY

| Contaminant | Low pH Selenium | |
|-------------------------------------|-----------------|---------|
| Number of Systems Tested | 2 | |
| Rated Claim | 11.40 | Liters |
| Performance Indicating Device (PID) | Yes | |
| Total Test Volume | 14 | Liters |
| Percentage of Rated Claim | 123 | PERCENT |
| Manufacturers Rated Flow Rate | 0.50 | GPM |
| Average Flow Rate (all devices) | 0.381 | GPM |
| Average Test Influent | 121 | ug/L |
| Average Effluent (all devices) | 1.31 | ug/L |
| Maximum Allowable Effluent Level | 50 | ug/L |
| Failure Point - Linx140-120V #3 | Didn't Fail | Liters |
| Failure Point - Linx140-120V #4 | Didn't Fail | Liters |

This report has been reviewed for technical accuracy and completeness. The analyses were performed using EPA or other approved methodologies and the results were reported on an "as received" basis unless otherwise noted. These results relate only to the items tested.

NA = Not Applicable

su - Standard Units

UV - Unit Volume

mg/L = milligrams per Liter

ug/L = micrograms per Liter

GPM = Gallons Per Minute

NTU = Nephelometric Turbidity Unit

(wc) = Water Characteristics are for monitoring purposes only, quality control samples may or may not have been performed.

16 - Analysis conducted outside the recognized method holding time.

END OF DOCUMENT