

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, AZ 85007
Attention: David Burchard

Date of Issue
03/14/2017



Eurofins Eaton
Analytical

TDF: Thomas.D.French
Project Manager



Report: 644352
Project: NOGALES-USD
ADHS License #: AZ0778
Group: Desert Shadows Middle
PO#: School
PO#: ADEQ16-116686:3

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

* This report shall not be reproduced except in full, without the written approval of the laboratory.

STATE CERTIFICATION LIST

| State | Certification Number | State | Certification Number |
|---------------------------------------|----------------------|---|----------------------|
| Alabama | 41060 | Mississippi | Certified |
| ----- | ----- | Montana | Cert 0035 |
| Arizona | AZ0778 | Nebraska | Certified |
| Arkansas | Certified | Nevada | CA00006-2016 |
| California-Monrovia-ELAP | 2813 | New Hampshire * | 2959 |
| California-Colton- ELAP | 2812 | New Jersey * | CA 008 |
| California-Folsom- ELAP | 2820 | New Mexico | Certified |
| California-Fresno- ELAP | 2966 | New York * | 11320 |
| Colorado | Certified | North Carolina | 06701 |
| Connecticut | PH-0107 | North Dakota | R-009 |
| Delaware | CA 006 | Oregon (Primary AB) * | ORELAP 4034 |
| Florida * | E871024 | Pennsylvania * | 68-565 |
| Georgia | 947 | Puerto Rico | Certified |
| Guam | 16-003r | Rhode Island | LAO00326 |
| Hawaii | Certified | South Carolina | 87016 |
| Idaho | Certified | South Dakota | Certified |
| Illinois * | 200033 | Tennessee | TN02839 |
| Indiana | C-CA-01 | Texas * | T104704230-15-9 |
| Kansas * | E-10268 | Utah * | CA000062016-10 |
| Kentucky | 90107 | Vermont | VT0114 |
| Louisiana * | LA16003 | Virginia * | 460260 |
| Maine | CA0006 | Washington | C838 |
| Maryland | 224 | ----- | ----- |
| Commonwealth of Northern Marianas Is. | MP0004 | ----- | ----- |
| Massachusetts | M-CA006 | EPA Region 5 | Certified |
| Michigan | 9906 | Los Angeles County Sanitation Districts | 10264 |

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

| SPECIFIC TESTS | METHOD OR TECHNIQUE USED | Environmental (Drinking Water) | Environmental (Waste Water) | Water as a Component of Food and Bev/Bev/ Bottled Water |
|--|----------------------------|--------------------------------|-----------------------------|---|
| 1,4-Dioxane | EPA 522 | x | | x |
| 2,3,7,8-TCDD | Modified EPA 1613B | x | | x |
| Acrylamide | In House Method (2440) | x | | x |
| Alkalinity | SM 2320B | x | x | x |
| Ammonia | EPA 350.1 | | x | x |
| Ammonia | SM 4500-NH3 H | | x | x |
| Anions and DBPs by IC | EPA 300.0 | x | x | x |
| Anions and DBPs by IC | EPA 300.1 | x | | x |
| Asbestos | EPA 100.2 | x | x | |
| Bicarbonate Alkalinity as HCO ₃ | SM 2320B | x | x | x |
| BOD / CBOD | SM 5210B | | x | x |
| Bromate | In House Method (2447) | x | | x |
| Carbamates | EPA 531.2 | x | | x |
| Carbonate as CO ₃ | SM 2330B | x | x | x |
| Carbonyls | EPA 556 | x | | x |
| COD | EPA 410.4 / SM 5220D | | x | |
| Chloramines | SM 4500-CL G | x | x | x |
| Chlorinated Acids | EPA 515.4 | x | | x |
| Chlorinated Acids | EPA 555 | x | | x |
| Chlorine Dioxide | SM 4500-CLO ₂ D | x | | x |
| Chlorine -Total/Free/ Combined Residual | SM 4500-Cl G | x | x | x |
| Conductivity | EPA 120.1 | | x | |
| Conductivity | SM 2510B | x | x | x |
| Corrosivity (Langelier Index) | SM 2330B | x | | x |
| Cryptosporidium | EPA 1623 | x | | x |
| Cyanide, Amenable | SM 4500-CN G | x | x | |
| Cyanide, Free | SM 4500CN F | x | x | x |
| Cyanide, Total | EPA 335.4 | x | x | x |
| Cyanogen Chloride (screen) | In House Method (2470) | x | | x |
| Diquat and Paraquat | EPA 549.2 | x | | x |
| DBP/HAA | SM 6251B | x | | x |
| Dissolved Oxygen | SM 4500-O G | | x | x |
| DOC | SM 5310C | x | | x |
| E. Coli (MTF/EC+MUG) | | x | | x |
| E. Coli | CFR 141.21(f)(6)(i) | x | | x |
| E. Coli | SM 9223 | | x | |
| E. Coli (Enumeration) | SM 9221B.1/ SM 9221F | x | | x |
| E. Coli (Enumeration) | SM 9223B | x | | x |
| EDB/DCBP | EPA 504.1 | x | | |
| EDB/DCBP and DBP | EPA 551.1 | x | | x |
| EDTA and NTA | In House Method (2454) | x | | x |
| Endothall | EPA 548.1 | x | | x |
| Endothall | In-house Method (2445) | x | | x |
| Enterococci | SM 9230B | x | x | |
| Fecal Coliform | SM 9221 E (MTF/EC) | x | | |
| Fecal Coliform | SM 9221C, E (MTF/EC) | | x | |
| Fecal Coliform (Enumeration) | SM 9221E (MTF/EC) | x | | x |
| Fecal Coliform with Chlorine Present | SM 9221E | | x | |
| Fecal Streptococci | SM 9230B | x | x | |
| Fluoride | SM 4500-F C | x | x | x |
| Giardia | EPA 1623 | x | | x |
| Glyphosate | EPA 547 | x | | x |
| Gross Alpha/Beta | EPA 900.0 | x | x | x |
| Gross Alpha Coprecipitation | SM 7110 C | x | x | x |
| Hardness | SM 2340B | x | x | x |
| Heterotrophic Bacteria | In House Method (2439) | x | | x |
| Heterotrophic Bacteria | SM 9215 B | x | | x |
| Hexavalent Chromium | EPA 218.6 | x | x | x |

| SPECIFIC TESTS | METHOD OR TECHNIQUE USED | Environmental (Drinking Water) | Environmental (Waste Water) | Water as a Component of Food and Bev/Bev/ Bottled Water |
|---|--|--------------------------------|-----------------------------|---|
| Hexavalent Chromium | EPA 218.7 | x | | x |
| Hexavalent Chromium | SM 3500-Cr B | | x | |
| Hormones | EPA 539 | x | | x |
| Hydroxide as OH Calc. | SM 2330B | x | | x |
| Kjeldahl Nitrogen | EPA 351.2 | | x | |
| Legionella | CDC Legionella | x | | x |
| Mercury | EPA 245.1 | x | x | x |
| Metals | EPA 200.7 / 200.8 | x | x | x |
| Microcystin LR | ELISA (2360) | x | | x |
| NDMA | EPA 521 | x | | x |
| NDMA | TQ In house method based on EPA 521 (2425) | x | | x |
| Nitrate/Nitrite Nitrogen | EPA 353.2 | x | x | x |
| OCL, Pesticides/PCB | EPA 505 | x | | x |
| Ortho Phosphate | EPA 365.1 | x | x | x |
| Ortho Phosphate | SM 4500P E | | | x |
| Ortho Phosphorous | SM 4500P E | x | | |
| Oxyhalides Disinfection Byproducts | EPA 317.0 | x | | x |
| Perchlorate | EPA 331.0 | x | | x |
| Perchlorate (low and high) | EPA 314.0 | x | | x |
| Perfluorinated Alkyl Acids | EPA 537 | x | | x |
| pH | EPA 150.1 | x | | |
| pH | SM 4500-H+B | x | x | x |
| Phenylurea Pesticides/ Herbicides | In House Method, based on EPA 532 (2448) | x | | x |
| Pseudomonas | IDEXX Pseudalert (2461) | x | | x |
| Radium-226 | GA Institute of Tech | x | | x |
| Radium-228 | GA Institute of Tech | x | | x |
| Radon-222 | SM 7500RN | x | | x |
| Residue, Filterable | SM 2540C | x | x | x |
| Residue, Non-filterable | SM 2540D | | x | |
| Residue, Total | SM 2540B | | x | x |
| Residue, Volatile | EPA 160.4 | | x | |
| Semi-VOC | EPA 525.2 | x | | x |
| Semi-VOC | EPA 625 | | x | x |
| Silica | SM 4500-Si D | x | x | |
| Silica | SM 4500-SiO ₂ C | x | x | |
| Sulfide | SM 4500-S ⁻ D | | x | |
| Sulfite | SM 4500-SO ₃ B | x | x | x |
| Surfactants | SM 5540C | x | x | x |
| Taste and Odor Analytes | SM 6040E | x | | x |
| Total Coliform (P/A) | SM 9221 A, B | x | | x |
| Total Coliform (Enumeration) | SM 9221 A, B, C | x | | x |
| Total Coliform / E. coli | Colisure SM 9223 | x | | x |
| Total Coliform | SM 9221B | | x | |
| Total Coliform with Chlorine Present | SM 9221B | | x | |
| Total Coliform / E.coli (P/A and Enumeration) | SM 9223 | x | | x |
| TOC | SM 5310C | x | x | x |
| TOX | SM 5320B | | x | |
| Total Phenols | EPA 420.1 | | x | |
| Total Phenols | EPA 420.4 | x | x | x |
| Total Phosphorous | SM 4500 P E | | x | |
| Turbidity | EPA 180.1 | x | x | x |
| Turbidity | SM 2130B | x | x | |
| Uranium by ICP/MS | EPA 200.8 | x | | x |
| UV 254 | SM 5910B | x | | |
| VOC | EPA 524.2/EPA 524.3 | x | | x |
| VOC | EPA 624 | | x | x |
| VOC | EPA SW 846 8260 | x | | x |
| VOC | In House Method (2411) | x | | x |
| Yeast and Mold | SM 9610 | x | | x |

Acknowledgement of Samples Received

Addr: **Arizona Department of Environmental Quality**
1110 West Washington Street
Phoenix, AZ 85007

Client ID: ADEQ-LEAD

Folder #: 644352

Project: NOGALES-USD

Sample Group: Desert Shadows Middle School

Attn: David Burchard
Phone: (602) 771-4298

Project Manager: Thomas.D.French

Phone: (480) 778-1558

PO #: ADEQ16-116686:3

Sampler: Ricardo de La Riva

The following samples were received from you on **March 10, 2017** at **1029**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

| Sample # | Sample ID | Sample Date |
|--|-----------|-----------------|
| 201703100516 | 003339 | 03/08/2017 0502 |
| Sample Type: Drinking Fountain Facility ID: Building E/Adm. Sample Point ID: Main Hall | | |
| <div> <div>@ICPMS</div> <div>Freight - Outbound</div> <div>Freight - Return</div> </div> | | |

Test Description

@ICPMS -- ICPMS Metals

Collection Log

for experienced sample collectors

644352

Complete copy of this form for each sample collected. Your drinking water sample cannot be tested unless a copy of this form is shipped to the lab with each sample. In addition, the sample cannot be tested unless the Sample Identification Number matches the number on the sample container label.

- ☒ Check this box to confirm that **water had not been used at this tap or other taps in the area for 6 hours** and **no** flushing was done prior to sampling

| | |
|---|------------------------------------|
| Name of School District | NOGALES UNIFIED School District #1 |
| School Name | DESERT SHADOWS |
| Building (name/number) | BUILDING E / ADM. |
| Type of Fixture (tap, drinking fountain etc.) | |
| Location of Fixture (example, room number) | |
| Sample Identification Number (Write the number here and on sample container) | 003339 |
| Date of Collection | 03/07/2017 |
| Time of Collection | 5:02 AM |
| Printed Name of Sample Collector | RICARDO DE LA RIVA |
| Signature Sample Collector | <i>Ricardo de la Riva</i> |

Notes Sample collector:

collected sample AT MAIN HALL drinking Fountain

| For Lab use only | |
|---|--------------------|
| Analyze this drinking water sample for lead | |
| Date and Time Lab received | 3-10-17 10:29 |
| Signature | <i>[Signature]</i> |
| Notes: | |

For relinquishing samples upon delivery to labs only

Relinquished date and signature _____

These samples were collected for lead screening purposes only and cannot be used for compliance.



Eaton Analytical

Kit Order for Arizona Department of Environmental Quality

Thomas.D.French is your Eurofins Eaton Analytical Service Manager

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit #: 159224 

Created By: Thomas.D.French - [TDF]
Deliver By: 02/17/2017
STG: Bottle Orders
Ice Type: W

Client ID: ADEQ-LEAD
Project Code: NOGALES-USD Bottle Orders
Group Name: Desert Shadows Middle School
PO#/JOB#:

Note: Sampler Please return this paper with your samples

Ship Sample Kits to
Nogales Unified School District
610 W. Western Avenue
Nogales, AZ 85621

Attn: Ricardo De La Riva
Phone: (520) 287-0800

Send Report to
Arizona Department of Environmental
Quality
1110 West Washington Street
Phoenix, AZ 85007

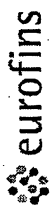
Attn: David Burchard
Phone: (602) 771-4298

Billing Address
Arizona Department of Environmental
Quality
1110 West Washington Street
Phoenix, AZ 85007

Attn: ADEQ
Phone: (602) 771-1936

| # of Sample | Tests | Bottle Qty - Type [preservative information] | UN DOT # |
|--|--------|--|----------|
| 1 | @ICPMS | 1 - 250ml poly [no preservative] | |
| Comments | | | |
| Desert Shadows Middle School. Include Nogales Unified District School-Specific Sample list, 1 Lead Sampling Plan Record, packing instructions for return shipment to Eurofins Eaton Analytical, Inc. 750 Royal Oaks Drive, Suite C, Monrovia, CA 91016. 1 sample container. Return Shipment Fed EX | | | |
| Sampler - please refer to Sampling Plan Records for instructions on completing paperwork and what to include with return shipment of the samples. | | | |

Code Status Date Shipped Via Tracking # # of Coolers Prepared By



Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

SAMPLE TEMP RECEIVED:

SAMPLES REC'D DAY OF COLLECTION?

IR Gun ID = 461A (Observation = 22.0 °C) (Corr. Factor -0.1 °C) (Final = 21.9 °C)

TYPE OF ICE: Real ☒ Synthetic ☐ No Ice ☒

CONDITION OF ICE: Frozen ☐ Partially Frozen ☐ Thawed ☒ N/A ☐

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

- 1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: <10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: <10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

| | |
|---|---|
| 1 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C) | 2 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C) |
| 3 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C) | 4 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C) |

4) UCMR3: 524.3: (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)
(non-GLEC) 522: (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)

≤10°C if received within 48 hours of sample collection (not the same business day); ≤6°C if received after 48 hours of sample collection. Measure temperature for each method above.

5) LT2: Giardia /Cryptosporidium: <20 °C, not frozen (received after 8 hours of sample collection)

E. Coli: <10°C, not frozen (if received after 2 hours of sample collection)

Giardia/Crypto: (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)

E.Coli: (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)

6) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

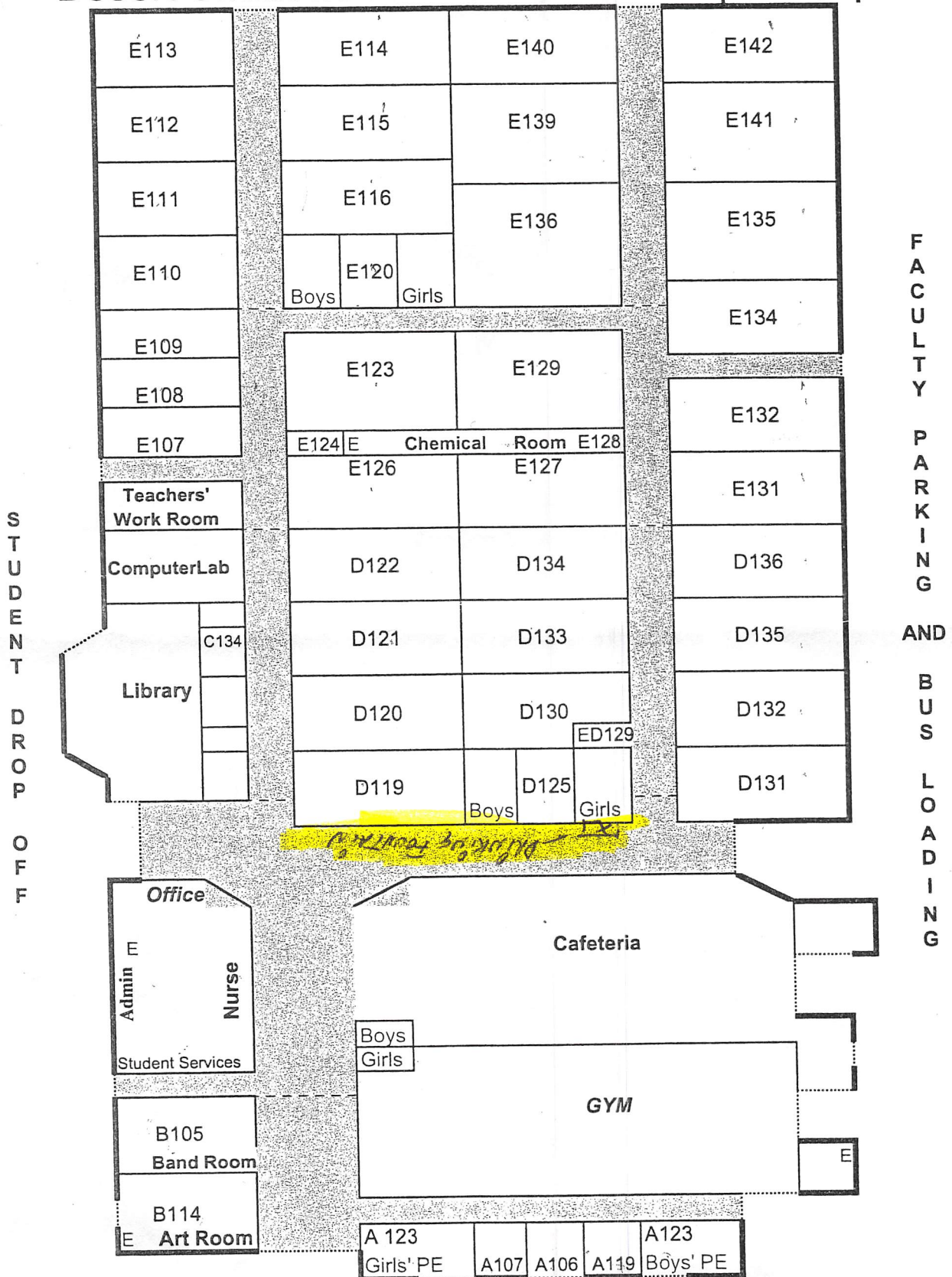
Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SIGNATURE _____ PRINT NAME _____ COMPANY/TITLE _____ DATE _____ TIME _____

| | | | | |
|---------------------------------|---------------|---------------------------|---------|------|
| RECEIVED BY: <u>[Signature]</u> | <u>Joseph</u> | Eurofins Eaton Analytical | 3.10.17 | 1029 |
|---------------------------------|---------------|---------------------------|---------|------|

| | | | | | | | | | | |
|--------------------------|------------------------------|------|-------------|---------------|------|-------------------|---------|--------|------------|---|
| Nogales Unified District | Desert Shadows Middle School | 1001 | School Bldg | Middle School | 1996 | 451 N Arroyo Blvd | Nogales | 85621- | Santa Cruz | 1 |
| Total Containers | | | | | | | | | | 1 |

Desert Shadows Middle School Campus Map



Tel: (626) 386-1100
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Laboratory Comments
Report: 644352

Arizona Department of Environmental Quality
David Burchard
1110 West Washington Street
Phoenix, AZ 85007

Tel: (626) 386-1100
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Laboratory Hits
Report: 644352

Arizona Department of Environmental Quality
David Burchard
1110 West Washington Street
Phoenix, AZ 85007

Samples Received on:
03/10/2017 1029

| Analyzed | Analyte | Sample ID | Result | Federal MCL | Units | MRL |
|----------|---------|-----------|--------|-------------|-------|-----|
|----------|---------|-----------|--------|-------------|-------|-----|

Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 644352

Arizona Department of Environmental Quality
 David Burchard
 1110 West Washington Street
 Phoenix, AZ 85007

Samples Received on:
 03/10/2017 1029

| Prepped | Analyzed | Prep Batch | Analytical Batch | Method | Analyte | Result | Units | MRL | Dilution |
|---------------------------------|----------------|------------|------------------|-------------|--------------------|-----------------------------------|-------|-----|----------|
| 003339 (201703100516) | | | | | | Sampled on 03/08/2017 0502 | | | |
| Sample Type: Drinking Fountain | | | | | | | | | |
| Facility ID: Building E/Adm. | | | | | | | | | |
| Sample Point ID: Main Hall | | | | | | | | | |
| EPA 200.8 - ICPMS Metals | | | | | | | | | |
| 03/11/17 | 03/12/17 14:49 | 977520 | 977559 | (EPA 200.8) | Lead Total ICAP/MS | ND | ug/L | 0.5 | 1 |

Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Arizona Department of Environmental Quality

ICPMS Metals

Prep Batch: 977520 Analytical Batch: 977559

201703100516

003339

Analysis Date: 03/12/2017

Analyzed by: RPD

Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Arizona Department of Environmental Quality

| QC Type | Analyte | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit (%) | RPD% |
|----------------------------------|--------------------|--------|--------|-----------|----------------------------------|-----------|------------|--------------|------|
| ICPMS Metals by EPA 200.8 | | | | | | | | | |
| Analytical Batch: 977559 | | | | | Analysis Date: 03/12/2017 | | | | |
| LCS1 | Lead Total ICAP/MS | | 20 | 19.8 | ug/L | 99 | (85-115) | | |
| LCS2 | Lead Total ICAP/MS | | 20 | 19.9 | ug/L | 99 | (85-115) | 20 | 0.50 |
| MBLK | Lead Total ICAP/MS | | | <0.5 | ug/L | | | | |
| MRL_CHK | Lead Total ICAP/MS | | 0.5 | 0.482 | ug/L | 97 | (50-150) | | |
| MS_201703091001 | Lead Total ICAP/MS | ND | 20 | 20.8 | ug/L | 104 | (70-130) | | |
| MS2_201703100479 | Lead Total ICAP/MS | 2.2 | 20 | 23.6 | ug/L | 107 | (70-130) | | |
| MSD_201703091001 | Lead Total ICAP/MS | ND | 20 | 21.1 | ug/L | 105 | (70-130) | 20 | 0.95 |
| MSD2_201703100479 | Lead Total ICAP/MS | 2.2 | 20 | 23.4 | ug/L | 106 | (70-130) | 20 | 0.85 |

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.