King County Environmental Lab Analytical Report

421874-915 Project:

Locator: WHITE LAKE DOCK 2A Descrip: White Lake Dock 2A

Sample: L83832-1 Matrix: LK FRESH WTR 6/24/24 11:40 ColDate:

WET Weight Basis

421874-915

WHITE LAKE SCUM White Lake

Project: 421874
Locator: WHITE
Descrip: White I
Sample: L83832
Matrix: LK FRE
ColDate: 6/24/24
WET Weight Basis L83832-2 LK FRESH WTR 6/24/24 11:45

| Parameters AQ ABRAXIS ADDA | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
|-------------------------------|-------|--|------|------|-------|-------|--|------|------|-------|
| Microcystin | 2.09 | | 0.3 | 0.6 | ug/L | 5.98 | | 0.3 | 0.6 | ug/L |
| AQ modified KCEL SOP4070 | | | | | | | | | | |
| Anatoxin-a | | <mdl< td=""><td>0.01</td><td>0.05</td><td>ug/L</td><td></td><td><mdl< td=""><td>0.01</td><td>0.05</td><td>ug/L</td></mdl<></td></mdl<> | 0.01 | 0.05 | ug/L | | <mdl< td=""><td>0.01</td><td>0.05</td><td>ug/L</td></mdl<> | 0.01 | 0.05 | ug/L |

King County Environmental Laboratory Batch Report

WG194825 Anatoxin-a by LCMS

| Sample | Project | Project Description | List Type | Matrix | Collect Date | Prep Date | Anal Date | QC Association | Comments |
|------------|------------|---------------------|--------------|-----------|-----------------|-----------------|-----------------|---------------------|----------------------|
| L83832-1 | 421874-915 | Muckleshoot Tribe | AQATX-DIRECT | FRESH WTR | 6/24/2024 11:40 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| | | Swimming Beaches | | | | | | | |
| L83832-2 | 421874-915 | Muckleshoot Tribe | AQATX-DIRECT | FRESH WTR | 6/24/2024 11:45 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| | | Swimming Beaches | | | | | | | |
| L84124-2 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 8:42 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84124-4 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 8:54 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84124-6 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 9:12 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84124-9 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 9:54 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84124-11 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 9:42 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84124-14 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 10:18 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84124-17 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 11:36 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84124-21 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 11:55 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84124-24 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 12:14 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84124-27 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 12:41 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84124-30 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 13:04 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84125-2 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 9:01 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84125-5 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 9:20 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84125-8 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 9:34 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84125-11 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 9:51 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84125-14 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 10:07 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84125-17 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 10:39 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84125-21 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/24/2024 12:13 | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84127-2 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/25/2024 11:45 | 6/25/2024 16:15 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84127-5 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/25/2024 9:28 | 6/25/2024 16:15 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84127-8 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/25/2024 11:11 | 6/25/2024 16:15 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84127-12 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/25/2024 8:33 | 6/25/2024 16:15 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84127-15 | 421395 | Swimming Beaches | AQATX-DIRECT | FRESH WTR | 6/25/2024 8:53 | 6/25/2024 16:15 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| L84129-2 | 421874-940 | Mercer Island Swim | AQATX-DIRECT | FRESH WTR | 6/25/2024 7:53 | 6/25/2024 16:15 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| | | Beach | | | | | | | |
| WG194825-1 | MB | | AQATX-DIRECT | OTHR WTR | | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | |
| WG194825-2 | SB | | AQATX-DIRECT | OTHR WTR | | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | WG194825-1 |
| WG194825-3 | MS | | AQATX-DIRECT | FRESH WTR | | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | L84124-11 |
| WG194825-4 | MSD | | AQATX-DIRECT | FRESH WTR | | 6/24/2024 14:50 | 6/26/2024 14:45 | WG194825-1,-2,-3,-4 | WG194825-3 L84124-11 |

King County Environmental Laboratory Batch Report

WG194848 Microcystin by ELISA

| Sample L83832-1 | Project 421874-915 | Project Description Muckleshoot Tribe Swimming Beaches | List Type AQADDA-ELISA | Matrix FRESH WTR | Collect Date 6/24/2024 11:40 | Prep Date 6/25/2024 16:15 | Anal Date 6/27/2024 13:43 | QC Association WG194848-1,-2,-3 | Comments |
|--------------------|---------------------------|--|----------------------------------|----------------------------|---------------------------------|------------------------------|----------------------------------|------------------------------------|------------|
| L83832-2 | 421874-915 | Muckleshoot Tribe Swimming Beaches | AQADDA-ELISA | FRESH WTR | 6/24/2024 11:45 | 6/25/2024 16:15 | 6/27/2024 13:43 | WG194848-1,-2,-3 | |
| L84172-1 | 421520-300 | Ecology Algae Control | AQADDA-ELISA | FRESH WTR | 6/24/2024 10:00 | 6/25/2024 11:15 | 6/27/2024 13:43 | WG194848-1,-2,-3 | |
| L84172-2 | 421520-300 | Ecology Algae Control | AQADDA-ELISA | FRESH WTR | 6/24/2024 13:00 | 6/25/2024 14:10 | 6/27/2024 13:43 | WG194848-1,-2,-3 | |
| L84172-3 | 421520-300 | Ecology Algae Control | AQADDA-ELISA | FRESH WTR | 6/24/2024 10:10 | 6/25/2024 14:10 | 6/27/2024 13:43 | WG194848-1,-2,-3 | |
| L84191-1 | 421520-300 | Ecology Algae Control | AQADDA-ELISA | FRESH WTR | 6/25/2024 13:10 | 6/26/2024 13:30 | 6/27/2024 13:43 | WG194848-1,-2,-3 | |
| WG194848-1 | PCE | | AQADDA-ELISA | OTHR WTR | | 6/27/2024 10:40 | 6/27/2024 13:43 | WG194848-1,-2,-3 | |
| WG194848-2 | MB | | AQADDA-ELISA | OTHR WTR | | 6/27/2024 10:30 | 6/27/2024 13:43 | WG194848-1,-2,-3 | |
| WG194848-3 | SB | | AQADDA-ELISA | OTHR WTR | | 6/27/2024 10:30 | 6/27/2024 13:43 | WG194848-1,-2,-3 | WG194848-2 |

King County Environmental Laboratory QC Report

Workgroup: WG194825 Anatoxin-a by LCMS

MB:WG194825-1 Matrix: OTHR WTR Listtype:AQATX-DIRECT Method:modified KCEL SOP4070 Project: Pkey:STD

(Method Blank)

 Parameter
 MDL
 RDL
 Units
 MB Value
 Qual

 Anatoxin-a
 0.01
 0.05
 ug/L
 <MDL</td>

SB:WG194825-2 MB:WG194825-1 Matrix: OTHR WTR Listtype:AQATX-DIRECT Method:modified KCEL SOP4070 Project: Pkey:STD

(Spike Blank, Method Blank)

Parameter MDL RDL Units MB Value True Value SB Value % Rec. Qual **Lab Limit** Anatoxin-a 0.01 0.05 ug/L <MDL 0.5 0.531 106 50--150

MSD:WG194825-4 MS:WG194825-3 L84124-11 Matrix: FRESH WTR Listtype:AQATX-DIRECT Method:modified KCEL SOP4070 Project:421395 Pkey:STD (Matrix Spike Duplicate, Matrix Spike)

| Parameter | MDL | RDL | Units SAI | MP Value | True Value | MS Value | % Rec. Qual | Lab Limit | True Value | MSD Value | % Rec. Qual | RPD | Qual Lab I | Limit |
|------------|------|------|-----------|---|------------|----------|-------------|-----------|------------|-----------|-------------|-----|------------|-------|
| Anatoxin-a | 0.01 | 0.05 | ug/L | <mdl< th=""><th>0.5</th><th>0.405</th><th>81</th><th>50150</th><th>0.5</th><th>0.411</th><th>82</th><th>2</th><th>(</th><th>J45</th></mdl<> | 0.5 | 0.405 | 81 | 50150 | 0.5 | 0.411 | 82 | 2 | (| J45 |

King County Environmental Laboratory QC Report

Workgroup: WG194848 Microcystin by ELISA

PCE:WG194848-1 Matrix: OTHR WTR Listtype:AQADDA-ELISA Method:ABRAXIS ADDA Project: Pkey:STD

(Positive Control Elisa)

 Parameter
 MDL
 RDL
 Units
 True Value
 PCE Value
 % Rec.
 Qual Lab Limit

 Microcystin
 0.3
 0.6
 ug/L
 0.75
 0.707
 94
 70--130

MB:WG194848-2 Matrix: OTHR WTR Listtype:AQADDA-ELISA Method:ABRAXIS ADDA Project: Pkey:STD

(Method Blank)

 Parameter
 MDL
 RDL
 Units
 MB Value
 Qual

 Microcystin
 0.3
 0.6
 ug/L
 <MDL</td>

SB:WG194848-3 MB:WG194848-2 Matrix: OTHR WTR Listtype:AQADDA-ELISA Method:ABRAXIS ADDA Project: Pkey:STD

(Spike Blank, Method Blank)

| Parameter | MDL | RDL | Units | MB Value | True Value | SB Value | % Rec. Qual | Lab Limit |
|-------------|-----|-----|-------|--|------------|----------|-------------|-----------|
| Microcystin | 0.3 | 0.6 | ug/L | <mdl< td=""><td>0.9</td><td>0.578</td><td>64</td><td>60140</td></mdl<> | 0.9 | 0.578 | 64 | 60140 |

ogin: P83832 Project: 421874-915

White Lake Swim Beach 6/24

FSU TC: ______ LPM: Meghan Elkey

| CHAIN | OF | CUST | ODY |
|-------|----|------|-----|
|-------|----|------|-----|

| | Relinquished by Wcale Variable | Date 6/24/24 | 1700 |
|--------------------------------|--------------------------------------|--------------------------------------|----------|
| | Received Dr. | Date 6-24-24 | Time 300 |
| | Sample Numbers | | [AII] |
| Sample Number | P83832-1 | P83832-2 | |
| QC Link Locator | WHITE LAKE DOCK 2A | WHITE LAKE SCUM | |
| Short Loc Desc Locator Desc | White Lake Dock 2A | White Lake KING COUNTY | |
| Site Comments | KING COUNTY White Lake | White Lake | |
| Start Date/Time | 11:40 | 11:45 | |
| End Date/Time | | | |
| Time Span | | | |
| Sample Depth | surface | Surface | |
| Dept, Matrix, Prod | 4 LK ADDA-ELISA; ATXA- ELISA (43) | 4 LK ADDA-ELISA; ATXA- ELISA (43) | |

LIQUID SAMPLE RECEIPT RECORD

| Logis | n Number(s): 🎖 📝 🛪 🗟 | 32-12 |) | Project No.: 4218 | 74-915 | | Sub-Contracting: Y /(N | List Product(s): | | |
|--------------|---|----------------|---------------------------------------|--|-------------|---------------------------------------|--|--|--------------------------|--------------------|
| | ect Date(s): 6 24 - | 19 110 | 1 | Receive Date: | 14-24 | | Changes: Y /N | List Parameter(s): | | |
| 7 | | s | AMPLE RECEIPT | 1 5,50 | | | | ECKLIST (Circle and/or check | | |
| ESPANIES OF | CONDITION A | Acceptable? | Comment ID | CONDITION | Acceptable? | Comment ID | PRODUCT / Preservation | | *** | · |
| l ahe | els / Fieldsheets | ŶN | COMMENCIAL | Volumes | Y I N | Comment | | SM Action √field sheet for F. pH | Acceptable? | Corrective Action |
| | ainer | YIN | | Holding Times | YN | | BNA / pH 6 - 9 w/ H ₂ SQ ₄ or NaOH CN / pH > 12 w/ NaOH within 15 min | | Y / N | ☐ Notify ORG |
| | perature (w/ ice) | Y/N/NA | | Delivery Location | Y/N | | NO23 pH < 2 w/ H ₂ SO ₄ | Check pH | Y / N | ☐ Deliver to CONV |
| | PAT | | avanja njegodi | TION and SAMPLE N | | | CR(VI) / TOTCR(VI) / pH 9.3 - 9.7 w/ NaOH w/in 15 min | ☐ Check pH | Y / N / NA | Preserve by SM |
| # | | | | : Sample Numbers | -Morva | | | √ fleid sheet for pH | Y/N | Deliver to CONV |
| # | 40 -4 -1 | <u> 50</u> | nue Description: | Sample Numbers | €s. | | ICP / HG-CVAA-M / pH < 2 w/ HNO ₃ | ☐ Check pH | Y/N | Preserve By SM |
| | 40 mL clear vial (VOA): | · · | 1 | | 17.7 | | O&G / HEM / PHENOL / pH < 2 w/ H ₂ SO ₄ | Check documentation | Y/N | ☐ Preserve by SM |
| - | 60 mL clear glass (PHYTO): | | | | | | PHYTOPLANKTON / Lugols | Visually inspect | Y/N | ☐ Deliver to MICRO |
| | 60 mL CWM HDPE: | | | | | | TKN / COD pH < 2 w/ H ₂ SO ₄ within 15 min | ☐ Check pH | YIN | Preserve By SM |
| <u> </u> - | 125 mL AWM HDPE: | | | | | | TOC / pH < 2 w/ HCl (NPDES only) | ☐ Check pH | Y / N | ☐ Preserve By SM |
| <u> </u> | 125 mL CNM HDPE: | | | | | | TOTSULFIDE / pH > 9 w/ NaOH, ZnAc | Check documentation | Y / N | ☐ Deliver to CONV |
| | 125 mL CWM HDPE: | | | | | · | WDO / FIXED | Visually Inspect | Y / N | ☐ Deliver to CONV |
| <u> </u> | 125 mL GANM; | | | | | | Other: | - | | |
| | 125 mL GANM w/HCI | | | | | | ROUTINE SM PRESERVATION | CHECKLIST (Circle and/or ch | eck applicable | selections) |
| <u> </u> | 250 mL AWM HDPE: | | | | | | PRODUCT / Preservation | SM Action | Acceptable? | Corrective Action |
| <u> </u> | 250 mL CWM HDPE: | | | | | | Chlorinated Pesticides / pH 5 - 9 wi H ₂ SO ₄ or NaOH | √ field sheet for F. pH | Y / N | 🖺 Adjust pH |
| | 250 mL CWM HDPE (MICRO) | : | | | | | HG-CVAA-L-Teflon (T / D) / pH < 2 w/ ULTRA HCI | ☐ Preserve & deliver | NA | NA |
| \angle | 250 mL GAWM: , | | | | | | ICPMS / HG-CVAA-M (T/D)/pH < 2 w/ULTRA HNO3 | Preserve & deliver | NA | NA |
| | 250 mL GAWM w/ H2SO4: | | | | | | TOC / pH < 2 w/ HC) | ☐ Preserve & deliver | NA | NA |
| | 300 mL WDO (8 hour HT): | | | | | | Other: | | | |
| | 500 mL AWM HDPE: | | | | | | Other: | | | |
| | 500 mL CWM HDPE: | | | | | | INTERFERENCE TES | ST (Circle and/or check application) | able selections | |
| | 500 mL CWM PP (MICRO): | | | | | | Product / Interference (SM Action) | Positive Test? | Treated | Corrective Action |
| | 500 mL HDPE (METALS): | | | | | ······ | BNA / Chlorine (Check documentation) | Y / N / not tested | Y / N | Deliver to ORG |
| | 500 ml. HDPE, double-bagged | (METALS): | , | | | | CN / Chlorine (Check documentation) | Y / N / not tested | Y / N | ☐ Deliver to CONV |
| | 500 mL Teflon (Hg): | | | | | · · · · · · · · · · · · · · · · · · · | CN / Sulfide (Check field sheet for DF) | Y / N / not tested | Y / N | ☐ Deliver to CONV |
| | 500 mL Teflon, double-bagged | d (METALS): | | | | | VOA / Chlorine (Check documentaion) | Y / N / not tested | Y / N | Deliver to ORG |
| | 500 mL GANM / GAWM: | | · · · · · · · · · · · · · · · · · · · | ······ · · · · · · · · · · · · · · · · | | | Other: | | | □ Deliver to UKG |
| | 500 mL Polystyrene Filtration I | Units (METALS) | 1 | | | | | HEADSPACE CHECK | | |
| Γ | 1L AWM HDPE: | | | | | | PRODUCT (SM Action) | Check For | Acceptable? | Corrective Action |
| | 1L CWM HDPE: | - | - | | | | MICRO (Visualiy inspect) | Headspace (@ 1") | Y / N | |
| | 1L CWM PP (MICRO): | | | | | | TOTSULFIDE (Visually inspect) | Headspace (< 1") | Y / N | □ Notify MICRO |
| | 1L GANM: | | | , | ······ | | VOA (Visually inspect) | Zero headspace | Y / N | □ Notify CONV |
| | 1L GCWM: | | | | | | WDO (Visually inspect) | | | □ Notify ORG |
| | 1L GAWM w/ H ₂ SQ ₄ : | * | | | | | Other: | Zero headspace | Y/N | ☐ Notify CONV |
| | 2L CWM HDPE: | | | | | - | PROVINCE AND ADDRESS OF THE PROPERTY OF THE PR | . Kalendari Karendari | | |
| l | Other: | | | | | | Product (SM Action) | KLIST (Gircle and/or check a) Field Filtered | Field Blank | Corrective Action |
| | 1 | f | OMMENTS/NO | TIEIRATIONS | W. C. | | ORTHOP (Check Field Sheet) | | | |
| especiality) | | | | | | | NO2 / NO3 / NO23 / NH3 / St (Documentation) | Y (within 15 min y / n) / N | Y/N | Deliver to CONV |
| | | | | | | | Dissolved Metals (Check Field Sheet) | Y (within 1 day y / n) / N | Y / N / NA Y / N / NA | Deliver to CONV |
| | | | | | | | DOC (Deliver / Notify Unit) | Y (within 15 min y / n) / N Y (within 15 min or 1 day) / N | Y / N / NA | Deliver to METALS |
| | | | | | | | DCOD / CR(VI) (Deliver / Notify Unit) | Y (within 15 min or 1 day) / N | Y / N / NA | Deliver to CONV |
| | | | | | | | Other; | i (widin 13 min y / m) / N | 1 / N/NA | ☐ Deliver to CONV |
| l | | | | | | | Other; | | | |
| | | | | | | | 1 | | | |

| CC: 🗆 AQUATOX, 🗅 CONV, 🖂 METALS, 🗀 MICRO, 🗀 (| ORG. I | |
|---|--------|--|
|---|--------|--|

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-baggeometals samples to METALS for preservation.
3. Do not test phytor preserved BNA and TOTSULFIDE samples.

- 4. Deliver pH, WDO, and all MICRO samples ASAP to appropriate section for immediate processing.
- 5. Enter "Time Span" for composite samples during sample login.
- 6. Split algae sample into 60 ml, clear glass if PHYTOQUAL is requested,

SM Signature:

Date / Time Completed:

JUN 24 24 13:02