# Attachment I

# Wastewater Discharge Self-Monitoring Reports

**King County**
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

February 12, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division CC

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of January 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 1/5/21, 1/12/21, 1/20/21, and 1/26/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 1/4/21-1/14/21)
- Leachate Hauling Report (for January)

At monitoring location A90021, there were four arsenic loading exceedances measured during the month of January. All other results met permit-specified limits. KCIW was notified of the exceedances as follows:

| Date of Exceedance | Date Reported to KCIW |
|---|---|
| 1/5/21 | 1/15/21 |
| 1/12/21 | 1/21/21 |
| 1/20/21 | 1/28/21 |
| 1/26/21 | 2/8/21 |

Details of these exceedances will be provided in one 14-day report appended to this SMR, per KCIW guidance.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)

Laura Belt, Interim Facilities Engineering and Science Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Isabel McClure, Interim Supervising Engineer, SWD
Dan Swope, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Subrina Tahsin, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD

Printed on recycled paper

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** JANUARY **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | pH | Arsenic, As | | Cadmium, Cd | | Chromium, Cr | | Copper, Cu | | Total Soluble Sulfides LIMIT - 0.1 | Daily Industrial Flow LIMIT 2,700,000 (GPD) | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LIMIT 1.0 | LOAD 0.27 | LIMIT 0.5 | LOAD 0.17 | LIMIT 2.75 | LOAD 1.20 | LIMIT 3.0 | LOAD 6.89 | | | |
| 1 | | | | | | | | | | | | 423,600 | |
| 2 | | | | | | | | | | | | 1,041,400 | |
| 3 | | | | | | | | | | | | 1,040,500 | |
| 4 | | | | | | | | | | | | 1,594,200 | |
| 5 | C | 8.00 | 0.0343 | 0.5979 | <0.0005 | 0.0044 | 0.0319 | 0.5560 | 0.00934 | 0.1628 | <0.1 ppm | 2,092,500 | |
| 6 | | | | | | | | | | | | 1,548,100 | |
| 7 | | | | | | | | | | | | 1,501,000 | |
| 8 | | | | | | | | | | | | 1,370,300 | |
| 9 | | | | | | | | | | | | 1,027,200 | |
| 10 | | | | | | | | | | | | 838,800 | |
| 11 | | | | | | | | | | | | 989,600 | |
| 12 | C | 7.70 | 0.0318 | 0. 4009 | <0.0005 | 0.0032 | 0.0329 | 0.4148 | 0.0101 | 0.1273 | <0.1 ppm | 1,511,700 | |
| 13 | | | | | | | | | | | | 1,319,600 | |
| 14 | | | | | | | | | | | | 1,584,600 | |
| 15 | | | | | | | | | | | | 1,964,600 | |
| 16 | | | | | | | | | | | | 1,174,600 | |
| 17 | | | | | | | | | | | | 1,001,400 | |
| 18 | | | | | | | | | | | | 745,800 | |
| 19 | | | | | | | | | | | | 1,282,600 | |
| 20 | C | 6.39 | 0.0334 | 0.2911 | <0.0005 | 0.0022 | 0.0313 | 0.2728 | 0.00805 | 0.0702 | <0.1 ppm | 1,045,100 | |
| 21 | | | | | | | | | | | | 1,028,400 | |
| 22 | | | | | | | | | | | | 1,043,500 | |
| 3 | | | | | | | | | | | | 1,046,500 | |
| 24 | | | | | | | | | | | | 1,036,100 | |
| 25 | | | | | | | | | | | | 990,400 | |
| 26 | C | 8.27 | 0.0361 | 0.3124 | <0.0005 | 0.0022 | 0.0299 | 0.2587 | 0.00744 | 0.0644 | <0.1 ppm | 1,037,500 | |
| 27 | | | | | | | | | | | | 709,700 | |
| 28 | | | | | | | | | | | | 733,000 | |
| 29 | | | | | | | | | | | | 707,400 | |
| 30 | | | | | | | | | | | | 0 | |
| 31 | | | | | | | | | | | | 214,900 | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Jennifer Keuna — Signature of Principal Executive or Authorized Agent

February 12, 2021 — Date

| | | | |
|---|---|---|---|
| Monthly Min pH | 6.39 | 1/20/21 | |
| Monthly Max pH | 8.27 | 1/26/21 | |

Total Monthly Flow (gallons): 33,644,600

Maximum Daily Flow: 2,092,500

1/5/2021

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

*Please Specify Month & Year:* **Month:** JANUARY **2021**

This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | C | 0.00179 | 0.03120 | <0.0001 | 0.00087 | 0.0378 | 0.659 | <0.0004 | 0.0035 | 0.112 | 1.952 | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | C | 0.00162 | 0.02042 | <0.0001 | 0.00063 | 0.036 | 0.454 | <0.0004 | 0.0025 | 0.122 | 1.538 | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | C | 0.0012 | 0.01046 | <0.0001 | 0.00044 | 0.0351 | 0.306 | <0.0004 | 0.0017 | 0.128 | 1.116 | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | C | 0.00101 | 0.00874 | <0.0001 | 0.00043 | 0.0341 | 0.295 | <0.0004 | 0.0017 | 0.105 | 0.909 | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Jennifer Kauna — Signature of Principal Executive or Authorized Agent

February 12, 2021 — Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** JANUARY **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

**All units are PPM unless otherwise noted.**

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) | Notes |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | 0 | 0 | Y | |
| 5 | 0 | 0 | Y | |
| 6 | 0 | 0 | Y | |
| 7 | 0 | 0 | Y | |
| 8 | 0 | 0 | Y | |
| 9 | 0 | 0 | Y | |
| 10 | 0 | 0 | Y | |
| 11 | 0 | 0 | Y | |
| 12 | 0 | 0 | Y | |
| 13 | 0 | 0 | Y | |
| 14 | 0 | 0 | Y | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| 31 | | | | |
| Monthly **MAX** | 0 | | 1/4/21-1/14/21 | |
| Monthly **AVG** | 0 | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Jennifer Keune — Signature of Principal Executive or Authorized Agent

February 12, 2021 — Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/14/2021
Report Group: CHLS-P_011421

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210105P**
SDG/Lab Sample ID: **16030 / L76152-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **01/05/2021**
LoginDate: **01/07/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | 1.52 | | .0497 | .0497 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Antimony, Total | 10 | mg/L | .00536 | | .00298 | .00298 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Arsenic, Total | 10 | mg/L | .0343 | | .000497 | .000497 | 1 | 01/07/2021 | 01/08/2021 | WG173816 |
| Barium, Total | 10 | mg/L | .0724 | | .00497 | .00497 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Beryllium, Total | 10 | mg/L | <.000994 | U | .000994 | .000994 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Cadmium, Total | 10 | mg/L | <.000497 | U | .000497 | .000497 | 0.5 | 01/07/2021 | 01/08/2021 | WG173816 |
| Calcium, Total | 10 | mg/L | 91.9 | | .497 | .497 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Chromium, Total | 10 | mg/L | .0319 | | .00199 | .00199 | 2.75 | 01/07/2021 | 01/08/2021 | WG173816 |
| Cobalt, Total | 10 | mg/L | .0107 | | .000497 | .000497 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Copper, Total | 10 | mg/L | .00934 | | .00199 | .00199 | 3 | 01/07/2021 | 01/08/2021 | WG173816 |
| Iron, Total | 10 | mg/L | 9.08 | | .0994 | .0994 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Lead, Total | 10 | mg/L | .00179 | | .000994 | .000994 | 2 | 01/07/2021 | 01/08/2021 | WG173816 |
| Magnesium, Total | 10 | mg/L | 23.8 | | .497 | .497 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Manganese, Total | 10 | mg/L | 1.23 | | .000994 | .000994 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Nickel, Total | 10 | mg/L | .0378 | | .000994 | .000994 | 2.5 | 01/07/2021 | 01/08/2021 | WG173816 |
| Phosphorus, Total | 10 | mg/L | 1.7 | | .994 | .994 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Potassium, Total | 10 | mg/L | 83.5 | | .994 | .994 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Selenium, Total | 10 | mg/L | <.00497 | U | .00497 | .00497 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Silver, Total | 10 | mg/L | <.000398 | U | .000398 | .000398 | 1 | 01/07/2021 | 01/08/2021 | WG173816 |
| Sodium, Total | 10 | mg/L | 228 | | .994 | .994 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Thallium, Total | 10 | mg/L | <.000994 | U | .000994 | .000994 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Tin, Total | 10 | mg/L | <.00497 | U | .00497 | .00497 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Vanadium, Total | 10 | mg/L | .0116 | | .000746 | .000746 | | 01/07/2021 | 01/08/2021 | WG173816 |
| Zinc, Total | 10 | mg/L | .112 | | .00497 | .00497 | 5 | 01/07/2021 | 01/08/2021 | WG173816 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 01/08/2021 | 01/08/2021 | WG173854 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/20/2021
Report Group: CHLS-P_012021

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210112P**
SDG/Lab Sample ID: **16051 / L76242-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **01/12/2021**
LoginDate: **01/13/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | 1.49 | | .05 | .05 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Antimony, Total | 10 | mg/L | .00494 | | .003 | .003 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Arsenic, Total | 10 | mg/L | .0318 | | .0005 | .0005 | 1 | 01/14/2021 | 01/14/2021 | WG173943 |
| Barium, Total | 10 | mg/L | .0643 | | .005 | .005 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Cadmium, Total | 10 | mg/L | <.0005 | U | .0005 | .0005 | 0.5 | 01/14/2021 | 01/14/2021 | WG173943 |
| Calcium, Total | 10 | mg/L | 83.8 | | .5 | .5 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Chromium, Total | 10 | mg/L | .0329 | | .002 | .002 | 2.75 | 01/14/2021 | 01/14/2021 | WG173943 |
| Cobalt, Total | 10 | mg/L | .00956 | | .0005 | .0005 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Copper, Total | 10 | mg/L | .0101 | | .002 | .002 | 3 | 01/14/2021 | 01/14/2021 | WG173943 |
| Iron, Total | 10 | mg/L | 7.89 | | .1 | .1 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Lead, Total | 10 | mg/L | .00162 | | .001 | .001 | 2 | 01/14/2021 | 01/14/2021 | WG173943 |
| Magnesium, Total | 10 | mg/L | 22.6 | | .5 | .5 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Manganese, Total | 10 | mg/L | 1.08 | | .001 | .001 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Nickel, Total | 10 | mg/L | .036 | | .001 | .001 | 2.5 | 01/14/2021 | 01/14/2021 | WG173943 |
| Phosphorus, Total | 10 | mg/L | 1.87 | | 1 | 1 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Potassium, Total | 10 | mg/L | 78 | | 1 | 1 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Selenium, Total | 10 | mg/L | <.005 | U | .005 | .005 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Silver, Total | 10 | mg/L | <.0004 | U | .0004 | .0004 | 1 | 01/14/2021 | 01/14/2021 | WG173943 |
| Sodium, Total | 10 | mg/L | 217 | | 1 | 1 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Thallium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Tin, Total | 10 | mg/L | <.005 | U | .005 | .005 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Vanadium, Total | 10 | mg/L | .0111 | | .00075 | .00075 | | 01/14/2021 | 01/14/2021 | WG173943 |
| Zinc, Total | 10 | mg/L | .122 | | .005 | .005 | 5 | 01/14/2021 | 01/14/2021 | WG173943 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 01/15/2021 | 01/19/2021 | WG173995 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/28/2021
Report Group: CHLS-P_012821

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210120P**
SDG/Lab Sample ID: **15934 / L76276-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **01/20/2021**
LoginDate: **01/21/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .911 | | .0501 | .0501 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Antimony, Total | 10 | mg/L | .00447 | | .003 | .003 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Arsenic, Total | 10 | mg/L | .0334 | | .000501 | .000501 | 1 | 01/21/2021 | 01/22/2021 | WG174099 |
| Barium, Total | 10 | mg/L | .0831 | | .00501 | .00501 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Cadmium, Total | 10 | mg/L | <.000501 | U | .000501 | .000501 | 0.5 | 01/21/2021 | 01/22/2021 | WG174099 |
| Calcium, Total | 10 | mg/L | 103 | | .501 | .501 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Chromium, Total | 10 | mg/L | .0313 | | .002 | .002 | 2.75 | 01/21/2021 | 01/22/2021 | WG174099 |
| Cobalt, Total | 10 | mg/L | .0089 | | .000501 | .000501 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Copper, Total | 10 | mg/L | .00805 | | .002 | .002 | 3 | 01/21/2021 | 01/22/2021 | WG174099 |
| Iron, Total | 10 | mg/L | 8.45 | | .1 | .1 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Lead, Total | 10 | mg/L | .0012 | | .001 | .001 | 2 | 01/21/2021 | 01/22/2021 | WG174099 |
| Magnesium, Total | 10 | mg/L | 24 | | .501 | .501 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Manganese, Total | 10 | mg/L | 1.57 | | .001 | .001 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Nickel, Total | 10 | mg/L | .0351 | | .001 | .001 | 2.5 | 01/21/2021 | 01/22/2021 | WG174099 |
| Phosphorus, Total | 10 | mg/L | 1.88 | | 1 | 1 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Potassium, Total | 10 | mg/L | 82.8 | | 1 | 1 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Selenium, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Silver, Total | 10 | mg/L | <.000401 | U | .000401 | .000401 | 1 | 01/21/2021 | 01/22/2021 | WG174099 |
| Sodium, Total | 10 | mg/L | 231 | | 1 | 1 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Thallium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Tin, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Vanadium, Total | 10 | mg/L | .0118 | | .000751 | .000751 | | 01/21/2021 | 01/22/2021 | WG174099 |
| Zinc, Total | 10 | mg/L | .128 | | .00501 | .00501 | 5 | 01/21/2021 | 01/22/2021 | WG174099 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 01/21/2021 | 01/22/2021 | WG174101 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/08/2021
Report Group: CHLS-P_020321

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210126P**
SDG/Lab Sample ID: **15940 / L76272-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **01/26/2021**
LoginDate: **01/27/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .649 | | .0492 | .0492 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Antimony, Total | 10 | mg/L | .0046 | | .00295 | .00295 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Arsenic, Total | 10 | mg/L | .0361 | | .000492 | .000492 | 1 | 01/28/2021 | 02/01/2021 | WG174182 |
| Barium, Total | 10 | mg/L | .0666 | | .00492 | .00492 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Beryllium, Total | 10 | mg/L | <.000983 | U | .000983 | .000983 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Cadmium, Total | 10 | mg/L | <.000492 | U | .000492 | .000492 | 0.5 | 01/28/2021 | 02/01/2021 | WG174182 |
| Calcium, Total | 10 | mg/L | 78.1 | | .492 | .492 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Chromium, Total | 10 | mg/L | .0299 | | .00197 | .00197 | 2.75 | 01/28/2021 | 02/01/2021 | WG174182 |
| Cobalt, Total | 10 | mg/L | .00853 | | .000492 | .000492 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Copper, Total | 10 | mg/L | .00744 | | .00197 | .00197 | 3 | 01/28/2021 | 02/01/2021 | WG174182 |
| Iron, Total | 10 | mg/L | 6.36 | | .0983 | .0983 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Lead, Total | 10 | mg/L | .00101 | | .000983 | .000983 | 2 | 01/28/2021 | 02/01/2021 | WG174182 |
| Magnesium, Total | 10 | mg/L | 22.5 | | .492 | .492 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Manganese, Total | 10 | mg/L | 1.03 | | .000983 | .000983 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Nickel, Total | 10 | mg/L | .0341 | | .000983 | .000983 | 2.5 | 01/28/2021 | 02/01/2021 | WG174182 |
| Phosphorus, Total | 10 | mg/L | 1.65 | | .983 | .983 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Potassium, Total | 10 | mg/L | 86.6 | | .983 | .983 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Selenium, Total | 10 | mg/L | <.00492 | U | .00492 | .00492 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Silver, Total | 10 | mg/L | <.000393 | U | .000393 | .000393 | 1 | 01/28/2021 | 02/01/2021 | WG174182 |
| Sodium, Total | 10 | mg/L | 241 | | .983 | .983 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Thallium, Total | 10 | mg/L | <.000983 | U | .000983 | .000983 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Tin, Total | 10 | mg/L | <.00492 | U | .00492 | .00492 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Vanadium, Total | 10 | mg/L | .011 | | .000737 | .000737 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Zinc, Total | 10 | mg/L | .105 | | .00492 | .00492 | 5 | 01/28/2021 | 02/01/2021 | WG174182 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 01/28/2021 | 01/29/2021 | WG174214 |

Client Sample ID: **LEPS210126D**
SDG/Lab Sample ID: **15940 / L76272-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **01/26/2021**
LoginDate: **01/27/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .891 | | .0498 | .0498 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Antimony, Total | 10 | mg/L | .00479 | | .00299 | .00299 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Arsenic, Total | 10 | mg/L | .0367 | | .000498 | .000498 | 1 | 01/28/2021 | 02/01/2021 | WG174182 |
| Barium, Total | 10 | mg/L | .0695 | | .00498 | .00498 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Beryllium, Total | 10 | mg/L | <.000995 | U | .000995 | .000995 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Cadmium, Total | 10 | mg/L | <.000498 | U | .000498 | .000498 | 0.5 | 01/28/2021 | 02/01/2021 | WG174182 |
| Calcium, Total | 10 | mg/L | 79.3 | | .498 | .498 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Chromium, Total | 10 | mg/L | .0308 | | .00199 | .00199 | 2.75 | 01/28/2021 | 02/01/2021 | WG174182 |
| Cobalt, Total | 10 | mg/L | .0085 | | .000498 | .000498 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Copper, Total | 10 | mg/L | .00752 | | .00199 | .00199 | 3 | 01/28/2021 | 02/01/2021 | WG174182 |
| Iron, Total | 10 | mg/L | 6.44 | | .0995 | .0995 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Lead, Total | 10 | mg/L | .00103 | | .000995 | .000995 | 2 | 01/28/2021 | 02/01/2021 | WG174182 |
| Magnesium, Total | 10 | mg/L | 23 | | .498 | .498 | | 01/28/2021 | 02/01/2021 | WG174182 |
| Manganese, Total | 10 | mg/L | 1.04 | | .000995 | .000995 | | 01/28/2021 | 02/01/2021 | WG174182 |

| HYDROGEN SULFIDE GAS AT MANHOLE R10-52 | | |
|---|---|---|
| **Instrument #** | **Serial #** | **Calibration Date/Time** |
| RKI Eagle 2 | E2E656 | 12/10/20 @ 11:21 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 28675 | 30 | 12/31/20 @ 07:45 |
| **H2S Readings** | | |
| **Date** | **Daily Max** | **Daily Average** |
| 1/4/2021 | 0 | 0 |
| 1/5/2021 | 0 | 0 |
| 1/6/2021 | 0 | 0 |
| 1/7/2021 | 0 | 0 |
| 1/8/2021 | 0 | 0 |
| 1/9/2021 | 0 | 0 |
| 1/10/2021 | 0 | 0 |
| 1/11/2021 | 0 | 0 |
| 1/12/2021 | 0 | 0 |
| 1/13/2021 | 0 | 0 |
| 1/14/2021 | 0 | 0 |

**KING COUNTY SOLID WASTE DIVISION**
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: JANUARY
YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | 6 | | | | | | | | | | | | | |
| 5 | | | | | | | | 2 | | 2 | | | | | |
| 6 | | 8 | | | | | | | | | | | | | |
| 7 | | 3 | | | | | | 2 | | | | | | | |
| 8 | | 2 | | | | | | 2 | | | | | | | |
| 9 | | | | 1 | | 1 | | | | | | | | | |
| 10 | | | | | | 2 | | | | | | | | | |
| 11 | | 1 | | 1 | | | | 1 | | | | | | | |
| 12 | | 2 | | | | | | 1 | | | | | | | |
| 13 | | | | | | | | 4 | | | | | | | |
| 14 | | | | | | | | 4 | | | | | | | |
| 15 | | | | | | | | 2 | | | | | | | |
| 16 | | | | 2 | | 1 | | 2 | | | | | | | |
| 17 | | | | | | 5 | | 1 | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | 3 | | | | 2 | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | 2 | | | | | | 1 | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | 2 | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | 4 | | | | | | | |
| 27 | | | | | | | | 4 | | | | | | | |
| 28 | | | | | | 1 | | 3 | | | | | | | |
| 29 | | | | | | | | 4 | | | | | | | |
| 30 | | | | | | | | 4 | | | | | | | |
| 31 | | | | | | | | 2 | | | | | | | |
| TOTAL | 0 | 189000.00 | 0 | 28000.00 | 0 | 84000.00 | 0 | 315000.00 | 0 | 14000.00 | 0 | 0.00 | 0 | 0.00 | |

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**King County**
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

March 12, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division DS CC

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of February 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 2/4/21, 2/16/21, and 2/23/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 2/1/21-2/3/21; 2/17/21-2/23/21)
- Leachate Hauling Report (for February)

At monitoring location A90021, there were three arsenic loading exceedances measured during the month of February. All other results met permit-specified limits. KCIW was notified of the exceedances as follows:

| Date of Exceedance | Date Reported to KCIW |
|---|---|
| 2/4/21 | 2/16/21 |
| 2/16/21 | 3/2/21 |
| 2/23/21 | 3/8/21 |

Details of these exceedances will be provided in one 14-day report appended to this SMR, per KCIW guidance.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)

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Laura Belt, Interim Facilities Engineering and Science Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Isabel McClure, Interim Supervising Engineer, SWD
Dan Swope, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Subrina Tahsin, Engineer II, SWD
Natalya Usova, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD

Printed on recycled paper

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** FEBRUARY **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | pH | Arsenic, As | | Cadmium, Cd | | Chromium, Cr | | Copper, Cu | | Total Soluble Sulfides | Daily Industrial Flow | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LIMIT 1.0 | LOAD 0.27 | LIMIT 0.5 | LOAD 0.17 | LIMIT 2.75 | LOAD 1.20 | LIMIT 3.0 | LOAD 6.89 | LIMIT - 0.1 | LIMIT 2,700,000 (GPD) | |
| 1 | | | | | | | | | | | | 0 | |
| 2 | | | | | | | | | | | | 723,500 | |
| 3 | | | | | | | | | | | | 992,900 | |
| 4 | C | 8.30 | 0.0517 | 0.4286 | <0.0005 | 0.0021 | 0.0434 | 0.3598 | 0.00992 | 0.0822 | <0.1 ppm | 994,100 | |
| 5 | | | | | | | | | | | | 1,032,300 | |
| 6 | | | | | | | | | | | | 855,100 | |
| 7 | | | | | | | | | | | | 1,059,400 | |
| 8 | | | | | | | | | | | | 638,100 | |
| 9 | C | 8.26 | 0.0459 | 0.2689 | <0.0005 | 0.0015 | 0.0363 | 0.2126 | 0.00507 | 0.0297 | <0.1 ppm | 702,400 | |
| 10 | | | | | | | | | | | | 526,400 | |
| 11 | | | | | | | | | | | | 1,054,200 | |
| 12 | | | | | | | | | | | | 1,060,000 | |
| 13 | | | | | | | | | | | | 891,600 | |
| 14 | | | | | | | | | | | | 904,700 | |
| 15 | | | | | | | | | | | | 394,300 | |
| 16 | C | 8.34 | 0.0498 | 0.3815 | <0.0005 | 0.0019 | 0.0413 | 0.3164 | 0.0112 | 0.0858 | <0.1 ppm | 918,500 | |
| 17 | | | | | | | | | | | | 440,000 | |
| 18 | | | | | | | | | | | | 447,200 | |
| 19 | | | | | | | | | | | | 692,100 | |
| 20 | | | | | | | | | | | | 1,038,800 | |
| 21 | | | | | | | | | | | | 1,053,800 | |
| 22 | | | | | | | | | | | | 882,800 | |
| 23 | C | 8.18 | 0.0467 | 0. 4022 | <0.0005 | 0.0022 | 0.0367 | 0.3161 | 0.00671 | 0.0578 | <0.1 ppm | 1,032,700 | |
| 24 | | | | | | | | | | | | 934,900 | |
| 25 | | | | | | | | | | | | 979,000 | |
| 26 | | | | | | | | | | | | 1,059,200 | |
| 27 | | | | | | | | | | | | 526,000 | |
| 28 | | | | | | | | | | | | 521,100 | |
| 29 | | | | | | | | | | | | N/A | |
| 30 | | | | | | | | | | | | N/A | |
| 31 | | | | | | | | | | | | N/A | |

| | | | |
|---|---|---|---|
| Monthly Min pH | 8.18 | 2/23/21 | |
| Monthly Max pH | 8.34 | 2/16/21 | |
| Total Monthly Flow (gallons) | 22,355,100 | | |
| Maximum Daily Flow | 1,060,000 | | 2/12/2021 |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by: 3/12/2021
Signature of Principal Executive or Authorized Agent — Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: DFE51C3D-BD88-4781-A8A3-546DA303CB0F

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

*Please Specify Month & Year:* **Month:** FEBRUARY **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | C | 0.00155 | 0.01285 | <0.0001 | 0.00041 | 0.0468 | 0.388 | <0.0004 | 0.0017 | 0.13 | 1.078 | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | C | 0.000493 | 0.00289 | <0.0001 | 0.00029 | 0.0442 | 0.259 | <0.0004 | 0.0012 | 0.0755 | 0.442 | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | C | 0.00168 | 0.01287 | <0.0001 | 0.00038 | 0.0457 | 0.350 | <0.0004 | 0.0015 | 0.131 | 1.003 | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | C | 0.00107 | 0.00922 | <0.0001 | 0.00043 | 0.0452 | 0.389 | <0.0004 | 0.0017 | 0.105 | 0.904 | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Dwight Yuen
Signature of Principal Executive or Authorized Agent

3/12/2021
Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

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King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

*Please Specify Month & Year:* **Month:** FEBRUARY **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

**All units are PPM unless otherwise noted.**

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) |
|---|---|---|---|
| 1 | 0.0 | 0.0 | N |
| 2 | 0.0 | 0.0 | Y |
| 3 | 0.0 | 0.0 | Y |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | 0.0 | 0.0 | Y |
| 18 | 0.0 | 0.0 | Y |
| 19 | 0.0 | 0.0 | Y |
| 20 | 0.0 | 0.0 | Y |
| 21 | 0.0 | 0.0 | Y |
| 22 | 0.0 | 0.0 | Y |
| 23 | 0.0 | 0.0 | Y |
| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| Monthly **MAX** | 0 | | 2/1-2/3; 2/17-2/23 |
| Monthly **AVG** | 0 | | |

**Notes**

A power failure was discovered after picking up the Eagle from R10-52 on 2/9. SWD took the meter to get serviced and re-calibrated. The meter was replaced on 2/17 to meet regulatory requirements set in Permit No. 7842-03.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Signature of Principal Executive or Authorized Agent

3/12/2021
Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: DFE51C3D-BD88-4781-A8A3-546DA303CB0F

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/11/2021
Report Group: CHLS-P_021121

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210204P**
SDG/Lab Sample ID: **16022 / L76349-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **02/04/2021**
LoginDate: **02/05/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | 1.11 | | .0496 | .0496 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Antimony, Total | 10 | mg/L | .00598 | | .00298 | .00298 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Arsenic, Total | 10 | mg/L | .0517 | | .000496 | .000496 | 1 | 02/05/2021 | 02/09/2021 | WG174323 |
| Barium, Total | 10 | mg/L | .0802 | | .00496 | .00496 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Beryllium, Total | 10 | mg/L | <.000992 | U | .000992 | .000992 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Cadmium, Total | 10 | mg/L | <.000496 | U | .000496 | .000496 | 0.5 | 02/05/2021 | 02/09/2021 | WG174323 |
| Calcium, Total | 10 | mg/L | 98.2 | | .496 | .496 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Chromium, Total | 10 | mg/L | .0434 | | .00198 | .00198 | 2.75 | 02/05/2021 | 02/09/2021 | WG174323 |
| Cobalt, Total | 10 | mg/L | .0116 | | .000496 | .000496 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Copper, Total | 10 | mg/L | .00992 | | .00198 | .00198 | 3 | 02/05/2021 | 02/09/2021 | WG174323 |
| Iron, Total | 10 | mg/L | 8.63 | | .0992 | .0992 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Lead, Total | 10 | mg/L | .00155 | | .000992 | .000992 | 2 | 02/05/2021 | 02/09/2021 | WG174323 |
| Magnesium, Total | 10 | mg/L | 27.9 | | .496 | .496 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Manganese, Total | 10 | mg/L | 1.3 | | .000992 | .000992 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Nickel, Total | 10 | mg/L | .0468 | | .000992 | .000992 | 2.5 | 02/05/2021 | 02/09/2021 | WG174323 |
| Phosphorus, Total | 10 | mg/L | 2.27 | | .992 | .992 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Potassium, Total | 10 | mg/L | 116 | | .992 | .992 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Selenium, Total | 10 | mg/L | <.00496 | U | .00496 | .00496 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Silver, Total | 10 | mg/L | <.000397 | U | .000397 | .000397 | 1 | 02/05/2021 | 02/09/2021 | WG174323 |
| Sodium, Total | 10 | mg/L | 313 | | .992 | .992 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Thallium, Total | 10 | mg/L | <.000992 | U | .000992 | .000992 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Tin, Total | 10 | mg/L | .00542 | | .00496 | .00496 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Vanadium, Total | 10 | mg/L | .0144 | | .000744 | .000744 | | 02/05/2021 | 02/09/2021 | WG174323 |
| Zinc, Total | 10 | mg/L | .13 | | .00496 | .00496 | 5 | 02/05/2021 | 02/09/2021 | WG174323 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 02/08/2021 | 02/09/2021 | WG174345 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/19/2021
Report Group: CHLS-P_021721

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210209P**
SDG/Lab Sample ID: **16043 / L76394-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **02/09/2021**
LoginDate: **02/10/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .465 | | .0493 | .0493 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Antimony, Total | 10 | mg/L | .00537 | | .00296 | .00296 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Arsenic, Total | 10 | mg/L | .0459 | | .000493 | .000493 | 1 | 02/18/2021 | 02/18/2021 | WG174382 |
| Barium, Total | 10 | mg/L | .0649 | | .00493 | .00493 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Beryllium, Total | 10 | mg/L | <.000986 | U | .000986 | .000986 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Cadmium, Total | 10 | mg/L | <.000493 | U | .000493 | .000493 | 0.5 | 02/18/2021 | 02/18/2021 | WG174382 |
| Calcium, Total | 10 | mg/L | 91.6 | | .493 | .493 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Chromium, Total | 10 | mg/L | .0363 | | .00197 | .00197 | 2.75 | 02/18/2021 | 02/18/2021 | WG174382 |
| Cobalt, Total | 10 | mg/L | .0107 | | .000493 | .000493 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Copper, Total | 10 | mg/L | .00507 | | .00197 | .00197 | 3 | 02/18/2021 | 02/18/2021 | WG174382 |
| Iron, Total | 10 | mg/L | 6.89 | | .0986 | .0986 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Lead, Total | 10 | mg/L | <.000986 | U | .000986 | .000986 | 2 | 02/18/2021 | 02/18/2021 | WG174382 |
| Magnesium, Total | 10 | mg/L | 27.5 | | .493 | .493 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Manganese, Total | 10 | mg/L | 1.13 | | .000986 | .000986 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Nickel, Total | 10 | mg/L | .0442 | | .000986 | .000986 | 2.5 | 02/18/2021 | 02/18/2021 | WG174382 |
| Phosphorus, Total | 10 | mg/L | 1.92 | | .986 | .986 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Potassium, Total | 10 | mg/L | 110 | | .986 | .986 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Selenium, Total | 10 | mg/L | <.00493 | U | .00493 | .00493 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Silver, Total | 10 | mg/L | <.000395 | U | .000395 | .000395 | 1 | 02/18/2021 | 02/18/2021 | WG174382 |
| Sodium, Total | 10 | mg/L | 311 | | .986 | .986 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Thallium, Total | 10 | mg/L | <.000986 | U | .000986 | .000986 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Tin, Total | 10 | mg/L | .00565 | | .00493 | .00493 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Vanadium, Total | 10 | mg/L | .0121 | | .00074 | .00074 | | 02/18/2021 | 02/18/2021 | WG174382 |
| Zinc, Total | 10 | mg/L | .0755 | | .00493 | .00493 | 5 | 02/18/2021 | 02/18/2021 | WG174382 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 02/11/2021 | 02/11/2021 | WG174388 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/28/2021
Report Group: CHLS-P_022521

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210216P**
SDG/Lab Sample ID: **16057 / L76401-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **02/16/2021**
LoginDate: **02/18/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | 2.09 | J | .05 | .05 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Antimony, Total | 10 | mg/L | .0058 | | .003 | .003 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Arsenic, Total | 10 | mg/L | .0498 | | .0005 | .0005 | 1 | 02/19/2021 | 02/22/2021 | WG174495 |
| Barium, Total | 10 | mg/L | .0824 | | .005 | .005 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Beryllium, Total | 10 | mg/L | <.000999 | U | .000999 | .000999 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Cadmium, Total | 10 | mg/L | <.0005 | U | .0005 | .0005 | 0.5 | 02/19/2021 | 02/22/2021 | WG174495 |
| Calcium, Total | 10 | mg/L | 101 | | .5 | .5 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Chromium, Total | 10 | mg/L | .0413 | | .002 | .002 | 2.75 | 02/19/2021 | 02/22/2021 | WG174495 |
| Cobalt, Total | 10 | mg/L | .0116 | | .0005 | .0005 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Copper, Total | 10 | mg/L | .0112 | | .002 | .002 | 3 | 02/19/2021 | 02/22/2021 | WG174495 |
| Iron, Total | 10 | mg/L | 9.67 | | .0999 | .0999 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Lead, Total | 10 | mg/L | .00168 | | .000999 | .000999 | 2 | 02/19/2021 | 02/22/2021 | WG174495 |
| Magnesium, Total | 10 | mg/L | 29.5 | | .5 | .5 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Manganese, Total | 10 | mg/L | 1.26 | | .000999 | .000999 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Nickel, Total | 10 | mg/L | .0457 | | .000999 | .000999 | 2.5 | 02/19/2021 | 02/22/2021 | WG174495 |
| Phosphorus, Total | 10 | mg/L | 2.54 | | .999 | .999 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Potassium, Total | 10 | mg/L | 115 | | .999 | .999 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Selenium, Total | 10 | mg/L | <.005 | U | .005 | .005 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Silver, Total | 10 | mg/L | <.0004 | U | .0004 | .0004 | 1 | 02/19/2021 | 02/22/2021 | WG174495 |
| Sodium, Total | 10 | mg/L | 324 | | .999 | .999 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Thallium, Total | 10 | mg/L | <.000999 | U | .000999 | .000999 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Tin, Total | 10 | mg/L | .00524 | | .005 | .005 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Vanadium, Total | 10 | mg/L | .0153 | | .000749 | .000749 | | 02/19/2021 | 02/22/2021 | WG174495 |
| Zinc, Total | 10 | mg/L | .131 | | .005 | .005 | 5 | 02/19/2021 | 02/22/2021 | WG174495 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 02/22/2021 | 02/23/2021 | WG174524 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/05/2021
Report Group: CHLS-P_030321

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210223P**
SDG/Lab Sample ID: **16141 / L76438-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **02/23/2021**
LoginDate: **02/24/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .67 | | .0502 | .0502 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Antimony, Total | 10 | mg/L | .00567 | | .00301 | .00301 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Arsenic, Total | 10 | mg/L | .0467 | | .000502 | .000502 | 1 | 02/25/2021 | 03/01/2021 | WG174571 |
| Barium, Total | 10 | mg/L | .062 | | .00502 | .00502 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Cadmium, Total | 10 | mg/L | <.000502 | U | .000502 | .000502 | 0.5 | 02/25/2021 | 03/01/2021 | WG174571 |
| Calcium, Total | 10 | mg/L | 95.1 | | .502 | .502 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Chromium, Total | 10 | mg/L | .0367 | | .00201 | .00201 | 2.75 | 02/25/2021 | 03/01/2021 | WG174571 |
| Cobalt, Total | 10 | mg/L | .0111 | | .000502 | .000502 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Copper, Total | 10 | mg/L | .00671 | | .00201 | .00201 | 3 | 02/25/2021 | 03/01/2021 | WG174571 |
| Iron, Total | 10 | mg/L | 8.86 | | .1 | .1 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Lead, Total | 10 | mg/L | .00107 | | .001 | .001 | 2 | 02/25/2021 | 03/01/2021 | WG174571 |
| Magnesium, Total | 10 | mg/L | 28.8 | | .502 | .502 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Manganese, Total | 10 | mg/L | .829 | | .001 | .001 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Nickel, Total | 10 | mg/L | .0452 | | .001 | .001 | 2.5 | 02/25/2021 | 03/01/2021 | WG174571 |
| Phosphorus, Total | 10 | mg/L | 2.41 | | 1 | 1 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Potassium, Total | 10 | mg/L | 112 | | 1 | 1 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Selenium, Total | 10 | mg/L | <.00502 | U | .00502 | .00502 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Silver, Total | 10 | mg/L | <.000402 | U | .000402 | .000402 | 1 | 02/25/2021 | 03/01/2021 | WG174571 |
| Sodium, Total | 10 | mg/L | 316 | | 1 | 1 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Thallium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Tin, Total | 10 | mg/L | <.00502 | U | .00502 | .00502 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Vanadium, Total | 10 | mg/L | .0122 | | .000753 | .000753 | | 02/25/2021 | 03/01/2021 | WG174571 |
| Zinc, Total | 10 | mg/L | .105 | | .00502 | .00502 | 5 | 02/25/2021 | 03/01/2021 | WG174571 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 02/25/2021 | 02/26/2021 | WG174587 |

*Target Parameter Count for SDG: 25*

| HYDROGEN SULFIDE GAS AT MANHOLE R10-52 | | |
|---|---|---|
| **Instrument #** | **Serial #** | **Calibration Date/Time** |
| RKI Eagle 2 | E2E656 | 12/10/20 @ 11:22 and 02/12/21 @ 11:44 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 23093 | 30 | 02/01/21 @ 07:53 |
| **H2S Readings** | | |
| **Date** | **Daily Max** | **Daily Average** |
| 2/1/2021 | 0 | 0 |
| 2/2/2021 | 0 | 0 |
| 2/3/2021 | 0 | 0 |
| Battery failure occurred on 2/3-- put Eagle meter back in on 2/17 to fulfill permit requirements | | |
| 2/17/2021 | 0 | 0 |
| 2/18/2021 | 0 | 0 |
| 2/19/2021 | 0 | 0 |
| 2/20/2021 | 0 | 0 |
| 2/21/2021 | 0 | 0 |
| 2/22/2021 | 0 | 0 |
| 2/23/2021 | 0 | 0 |

**KING COUNTY SOLID WASTE DIVISION**
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: FEBRUARY
YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | | | | | | | 4.00 | | | | | | | |
| 2 | | 3.00 | | | | | | 2.00 | | | | | | | |
| 3 | | 2.00 | | | | | | 2.00 | | | | | | | |
| 4 | | | | | | | | 4.00 | | | | | | | |
| 5 | | | | | | | | 2.00 | | | | | | | |
| 6 | | | | 2.00 | | | | 2.00 | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | 2.00 | | 1.00 | | | | 2.00 | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | 4.00 | | | | | | | | | | | | | |
| 11 | | | | | | | | 2.00 | | | | | | | |
| 12 | | 2.00 | | | | | | 1.00 | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | 2.00 | | | | | | | |
| 17 | | 3.00 | | | | | | 2.00 | | | | | | | |
| 18 | | | | | | | | 4.00 | | | | | | | |
| 19 | | 2.00 | | | | | | 2.00 | | | | | | | |
| 20 | | 0.00 | | | | | | 2.00 | | | | | | | |
| 21 | | | | | | | | 1.00 | | 1.00 | | | | | |
| 22 | | 3.00 | | 1.00 | | | | 2.00 | | | | | | | |
| 23 | | 2.00 | | | | | | 2.00 | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | 2.00 | | | | | | 1.00 | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | 2.00 | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| TOTAL | 0 | ######### | 0 | 42000.00 | 0 | 0.00 | 0 | 273000.00 | 0 | 7000.00 | 0 | 0.00 | 0 | 0.00 | |

**King County**
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

April 15, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division CC

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of March 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 3/2/21, 3/10/21, 3/16/21, 3/23/21 and 3/30/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 3/1/21-3/9/21)
- Leachate Hauling Report (for March)

At monitoring location A90021, there were three arsenic loading exceedances measured during the month of March. All other results met permit-specified limits. KCIW was notified of the exceedances as follows:

| Date of Exceedance | Date Reported to KCIW |
|---|---|
| 3/16/21 | 3/29/21 |
| 3/23/21 | 4/2/21 |
| 3/30/21 | 4/8/21 |

Details of these exceedances will be provided in one 14-day report appended to this SMR, per KCIW guidance.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Laura Belt, Interim Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD

Isabel McClure, Interim Supervising Engineer, SWD
Dan Swope, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Natalya Usova, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD

Printed on recycled paper

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** 7842-03

*Please Specify Month & Year:* **Month:** MARCH **2021**

This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

| Sample Date (circle) | Sample Type* | pH | Arsenic, As | | Cadmium, Cd | | Chromium, Cr | | Copper, Cu | | Total Soluble Sulfides LIMIT - 0.1 | Daily Industrial Flow LIMIT 2,700,000 (GPD) | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LIMIT 1.0 | LOAD 0.27 | LIMIT 0.5 | LOAD 0.17 | LIMIT 2.75 | LOAD 1.20 | LIMIT 3.0 | LOAD 6.89 | | | |
| 1 | | | | | | | | | | | | 876,400 | |
| 2 | C | 8.15 | 0.0427 | 0.1575 | <0.0005 | 0.0009 | 0.0344 | 0.1269 | 0.00801 | 0.0295 | < 0.1 | 442,200 | |
| 3 | | | | | | | | | | | | 992,500 | |
| 4 | | | | | | | | | | | | 437,500 | |
| 5 | | | | | | | | | | | | 1,023,100 | |
| 6 | | | | | | | | | | | | 420,600 | |
| 7 | | | | | | | | | | | | 420,600 | |
| 8 | | | | | | | | | | | | 414,600 | |
| 9 | | | | | | | | | | | | 577,200 | |
| 10 | C | 8.16 | 0.0535 | 0.1975 | <0.0005 | 0.0009 | 0.0443 | 0.1635 | 0.00725 | 0.0268 | < 0.1 | 442,600 | |
| 11 | | | | | | | | | | | | 0 | |
| 12 | | | | | | | | | | | | 0 | |
| 13 | | | | | | | | | | | | 514,900 | |
| 14 | | | | | | | | | | | | 524,000 | |
| 15 | | | | | | | | | | | | 0 | |
| 16 | C | 8.11 | 0.156 | 0.7143 | <0.0005 | 0.0011 | 0.054 | 0.2472 | 0.00654 | 0.0299 | < 0.1 | 549,000 | |
| 17 | | | | | | | | | | | | 417,700 | |
| 18 | | | | | | | | | | | | 466,100 | |
| 19 | | | | | | | | | | | | 541,900 | |
| 20 | | | | | | | | | | | | 0 | |
| 21 | | | | | | | | | | | | 0 | |
| 22 | | | | | | | | | | | | 517,600 | |
| 23 | C | 8.26 | 0.203 | 0.9574 | <0.0005 | 0.0012 | 0.0562 | 0.2651 | 0.00574 | 0.0271 | < 0.1 | 565,500 | |
| 24 | | | | | | | | | | | | 96,600 | |
| 25 | | | | | | | | | | | | 908,300 | |
| 26 | | | | | | | | | | | | 557,100 | |
| 27 | | | | | | | | | | | | 558,500 | |
| 28 | | | | | | | | | | | | 556,000 | |
| 29 | | | | | | | | | | | | 567,100 | |
| 30 | C | 8.20 | 0.17 | 0.7852 | <0.0005 | 0.0012 | 0.0601 | 0.2776 | 0.00677 | 0.0313 | < 0.1 | 553,800 | |
| 31 | | | | | | | | | | | | 114,600 | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by: Jennifer Yuen
Signature of Responsible Officer or Authorized Agent
4/15/2021
Date

| | | | |
|---|---|---|---|
| Monthly Min pH | 8.11 | 3/16/21 | |
| Monthly Max pH | 8.26 | 3/23/21 | |

Total Monthly Flow (gallons) 14,056,000
Maximum Daily Flow 1,023,100

3/5/2021

PLEASE CIRCLE ALL PERMIT VIOLATIONS

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: 15DAEDB8-F0D0-4A49-A039-E6D02A571A3D

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

*Please Specify Month & Year:* **Month:** MARCH **2021**

This form is available at www.kingcounty.gov/industrialwaste.

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | C | 0.0012 | 0.00443 | <0.0001 | 0.00018 | 0.0424 | 0.156 | <0.0004 | 0.0007 | 0.116 | 0.428 | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | C | 0.00104 | 0.00384 | <0.0001 | 0.00018 | 0.0478 | 0.176 | <0.0004 | 0.0007 | 0.128 | 0.472 | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | C | 0.00102 | 0.00467 | <0.0001 | 0.00023 | 0.0577 | 0.264 | <0.0004 | 0.0009 | 0.122 | 0.559 | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | C | <0.00101 | 0.00238 | <0.0001 | 0.00024 | 0.058 | 0.274 | <0.0004 | 0.0009 | 0.123 | 0.580 | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | C | 0.00107 | 0.00494 | <0.0001 | 0.00023 | 0.0621 | 0.287 | <0.0004 | 0.0009 | 0.142 | 0.656 | |
| 31 | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by: Jennifer Jume
A70FEC0A5E0F4A1...
Signature of Principal Executive or Authorized Agent

4/15/2021
Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: 15DAEDB8-F0D0-4A49-A039-E6D02A571A3D

King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

*Please Specify Month & Year:* **Month:** MARCH **2021**

This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) | Notes |
|---|---|---|---|---|
| 1 | 0.0 | 0.0 | Y | |
| 2 | 0.0 | 0.0 | Y | |
| 3 | 0.0 | 0.0 | Y | |
| 4 | 0.0 | 0.0 | Y | |
| 5 | 0.0 | 0.0 | Y | |
| 6 | 0.0 | 0.0 | Y | |
| 7 | 0.0 | 0.0 | Y | |
| 8 | 0.0 | 0.0 | Y | |
| 9 | 0.0 | 0.0 | Y | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
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| 24 | | | | |
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| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| 31 | | | | |

| | | |
|---|---|---|
| Monthly **MAX** | 0.0 | 3/1/21-3/9/21 |
| Monthly **AVG** | 0.0 | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by: [signature] 4/15/2021

A70EEC0AE02F44A...
Signature of Principal Executive or Authorized Agent Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: 15DAEDB8-F0D0-4A49-A039-E6D02A571A3D

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/11/2021
Report Group: CHLS-P_031021

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210302P**
SDG/Lab Sample ID: **16102 / L76471-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **03/02/2021**
LoginDate: **03/03/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | 1.12 | | .0501 | .0501 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Antimony, Total | 10 | mg/L | .00525 | | .003 | .003 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Arsenic, Total | 10 | mg/L | .0427 | | .000501 | .000501 | 1 | 03/04/2021 | 03/05/2021 | WG174673 |
| Barium, Total | 10 | mg/L | .067 | | .00501 | .00501 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Cadmium, Total | 10 | mg/L | <.000501 | U | .000501 | .000501 | 0.5 | 03/04/2021 | 03/05/2021 | WG174673 |
| Calcium, Total | 10 | mg/L | 103 | | .501 | .501 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Chromium, Total | 10 | mg/L | .0344 | | .002 | .002 | 2.75 | 03/04/2021 | 03/05/2021 | WG174673 |
| Cobalt, Total | 10 | mg/L | .0103 | | .000501 | .000501 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Copper, Total | 10 | mg/L | .00801 | | .002 | .002 | 3 | 03/04/2021 | 03/05/2021 | WG174673 |
| Iron, Total | 10 | mg/L | 9.51 | | .1 | .1 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Lead, Total | 10 | mg/L | .0012 | | .001 | .001 | 2 | 03/04/2021 | 03/05/2021 | WG174673 |
| Magnesium, Total | 10 | mg/L | 27.2 | | .501 | .501 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Manganese, Total | 10 | mg/L | 1.1 | | .001 | .001 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Nickel, Total | 10 | mg/L | .0424 | | .001 | .001 | 2.5 | 03/04/2021 | 03/05/2021 | WG174673 |
| Phosphorus, Total | 10 | mg/L | 2.38 | | 1 | 1 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Potassium, Total | 10 | mg/L | 105 | | 1 | 1 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Selenium, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Silver, Total | 10 | mg/L | <.000401 | U | .000401 | .000401 | 1 | 03/04/2021 | 03/05/2021 | WG174673 |
| Sodium, Total | 10 | mg/L | 286 | | 1 | 1 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Thallium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Tin, Total | 10 | mg/L | .00509 | | .00501 | .00501 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Vanadium, Total | 10 | mg/L | .0119 | | .000751 | .000751 | | 03/04/2021 | 03/05/2021 | WG174673 |
| Zinc, Total | 10 | mg/L | .116 | | .00501 | .00501 | 5 | 03/04/2021 | 03/05/2021 | WG174673 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 03/04/2021 | 03/05/2021 | WG174681 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/23/2021
Report Group: CHLS-P_031721

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210310P**
SDG/Lab Sample ID: **16071 / L76541-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **03/10/2021**
LoginDate: **03/10/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | 1.04 | | .0494 | .0494 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Antimony, Total | 10 | mg/L | .00691 | | .00296 | .00296 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Arsenic, Total | 10 | mg/L | .0535 | | .000494 | .000494 | 1 | 03/11/2021 | 03/11/2021 | WG174771 |
| Barium, Total | 10 | mg/L | .0751 | | .00494 | .00494 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Beryllium, Total | 10 | mg/L | <.000988 | U | .000988 | .000988 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Cadmium, Total | 10 | mg/L | <.000494 | U | .000494 | .000494 | 0.5 | 03/11/2021 | 03/11/2021 | WG174771 |
| Calcium, Total | 10 | mg/L | 114 | | .494 | .494 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Chromium, Total | 10 | mg/L | .0443 | | .00198 | .00198 | 2.75 | 03/11/2021 | 03/11/2021 | WG174771 |
| Cobalt, Total | 10 | mg/L | .0123 | | .000494 | .000494 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Copper, Total | 10 | mg/L | .00725 | | .00198 | .00198 | 3 | 03/11/2021 | 03/11/2021 | WG174771 |
| Iron, Total | 10 | mg/L | 9.37 | | .0988 | .0988 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Lead, Total | 10 | mg/L | .00104 | | .000988 | .000988 | 2 | 03/11/2021 | 03/11/2021 | WG174771 |
| Magnesium, Total | 10 | mg/L | 31.3 | | .494 | .494 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Manganese, Total | 10 | mg/L | 1.22 | | .000988 | .000988 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Nickel, Total | 10 | mg/L | .0478 | | .000988 | .000988 | 2.5 | 03/11/2021 | 03/11/2021 | WG174771 |
| Phosphorus, Total | 10 | mg/L | 2.76 | | .988 | .988 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Potassium, Total | 10 | mg/L | 122 | | .988 | .988 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Selenium, Total | 10 | mg/L | <.00494 | U | .00494 | .00494 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Silver, Total | 10 | mg/L | <.000395 | U | .000395 | .000395 | 1 | 03/11/2021 | 03/11/2021 | WG174771 |
| Sodium, Total | 10 | mg/L | 349 | | .988 | .988 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Thallium, Total | 10 | mg/L | <.000988 | U | .000988 | .000988 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Tin, Total | 10 | mg/L | .00585 | | .00494 | .00494 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Vanadium, Total | 10 | mg/L | .014 | | .000741 | .000741 | | 03/11/2021 | 03/11/2021 | WG174771 |
| Zinc, Total | 10 | mg/L | .128 | | .00494 | .00494 | 5 | 03/11/2021 | 03/11/2021 | WG174771 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 03/11/2021 | 03/15/2021 | WG174797 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/26/2021
Report Group: CHLS-P_032421

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210316P**
SDG/Lab Sample ID: **16147 / L76551-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **03/16/2021**
LoginDate: **03/17/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .864 | | .0501 | .0501 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Antimony, Total | 10 | mg/L | .0211 | | .00301 | .00301 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Arsenic, Total | 10 | mg/L | .156 | | .000501 | .000501 | 1 | 03/18/2021 | 03/18/2021 | WG174892 |
| Barium, Total | 10 | mg/L | .0828 | | .00501 | .00501 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Cadmium, Total | 10 | mg/L | <.000501 | U | .000501 | .000501 | 0.5 | 03/18/2021 | 03/18/2021 | WG174892 |
| Calcium, Total | 10 | mg/L | 120 | | .501 | .501 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Chromium, Total | 10 | mg/L | .054 | | .00201 | .00201 | 2.75 | 03/18/2021 | 03/18/2021 | WG174892 |
| Cobalt, Total | 10 | mg/L | .0139 | | .000501 | .000501 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Copper, Total | 10 | mg/L | .00654 | | .00201 | .00201 | 3 | 03/18/2021 | 03/18/2021 | WG174892 |
| Iron, Total | 10 | mg/L | 10.1 | | .1 | .1 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Lead, Total | 10 | mg/L | .00102 | | .001 | .001 | 2 | 03/18/2021 | 03/18/2021 | WG174892 |
| Magnesium, Total | 10 | mg/L | 36.1 | | .501 | .501 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Manganese, Total | 10 | mg/L | 1.24 | | .001 | .001 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Nickel, Total | 10 | mg/L | .0577 | | .001 | .001 | 2.5 | 03/18/2021 | 03/18/2021 | WG174892 |
| Phosphorus, Total | 10 | mg/L | 3.03 | | 1 | 1 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Potassium, Total | 10 | mg/L | 146 | | 1 | 1 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Selenium, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Silver, Total | 10 | mg/L | <.000401 | U | .000401 | .000401 | 1 | 03/18/2021 | 03/18/2021 | WG174892 |
| Sodium, Total | 10 | mg/L | 402 | | 1 | 1 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Thallium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Tin, Total | 10 | mg/L | .00693 | | .00501 | .00501 | | 03/18/2021 | 03/18/2021 | WG174892 |
| Vanadium, Total | 10 | mg/L | .0159 | D | .000752 | .000752 | | 03/18/2021 | 03/19/2021 | WG174892 |
| Zinc, Total | 10 | mg/L | .122 | | .00501 | .00501 | 5 | 03/18/2021 | 03/18/2021 | WG174892 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 03/17/2021 | 03/18/2021 | WG174903 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/01/2021
Report Group: CHLS-P_033121

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210323P**
SDG/Lab Sample ID: **16081 / L76580-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **03/23/2021**
LoginDate: **03/24/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .792 | | .0503 | .0503 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Antimony, Total | 10 | mg/L | .0235 | | .00302 | .00302 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Arsenic, Total | 10 | mg/L | .203 | | .000503 | .000503 | 1 | 03/25/2021 | 03/25/2021 | WG174975 |
| Barium, Total | 10 | mg/L | .0815 | | .00503 | .00503 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Beryllium, Total | 10 | mg/L | <.00101 | U | .00101 | .00101 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Cadmium, Total | 10 | mg/L | <.000503 | U | .000503 | .000503 | 0.5 | 03/25/2021 | 03/25/2021 | WG174975 |
| Calcium, Total | 10 | mg/L | 117 | | .503 | .503 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Chromium, Total | 10 | mg/L | .0562 | | .00201 | .00201 | 2.75 | 03/25/2021 | 03/25/2021 | WG174975 |
| Cobalt, Total | 10 | mg/L | .0146 | | .000503 | .000503 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Copper, Total | 10 | mg/L | .00574 | | .00201 | .00201 | 3 | 03/25/2021 | 03/25/2021 | WG174975 |
| Iron, Total | 10 | mg/L | 9.57 | | .101 | .101 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Lead, Total | 10 | mg/L | <.00101 | U | .00101 | .00101 | 2 | 03/25/2021 | 03/25/2021 | WG174975 |
| Magnesium, Total | 10 | mg/L | 38.4 | | .503 | .503 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Manganese, Total | 10 | mg/L | .87 | | .00101 | .00101 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Nickel, Total | 10 | mg/L | .058 | | .00101 | .00101 | 2.5 | 03/25/2021 | 03/25/2021 | WG174975 |
| Phosphorus, Total | 10 | mg/L | 3.48 | | 1.01 | 1.01 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Potassium, Total | 10 | mg/L | 167 | | 1.01 | 1.01 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Selenium, Total | 10 | mg/L | <.00503 | U | .00503 | .00503 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Silver, Total | 10 | mg/L | <.000402 | U | .000402 | .000402 | 1 | 03/25/2021 | 03/25/2021 | WG174975 |
| Sodium, Total | 10 | mg/L | 464 | | 1.01 | 1.01 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Thallium, Total | 10 | mg/L | <.00101 | U | .00101 | .00101 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Tin, Total | 10 | mg/L | .00707 | | .00503 | .00503 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Vanadium, Total | 10 | mg/L | .0184 | | .000754 | .000754 | | 03/25/2021 | 03/25/2021 | WG174975 |
| Zinc, Total | 10 | mg/L | .123 | | .00503 | .00503 | 5 | 03/25/2021 | 03/25/2021 | WG174975 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 03/26/2021 | 03/29/2021 | WG175005 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/07/2021
Report Group: CHLS-P_040621

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210330P**
SDG/Lab Sample ID: **16117 / L76583-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **03/30/2021**
LoginDate: **03/30/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, Total | 10 | mg/L | .0218 | | .003 | .003 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Arsenic, Total | 10 | mg/L | .17 | | .0005 | .0005 | 1 | 03/31/2021 | 04/02/2021 | WG175039 |
| Barium, Total | 10 | mg/L | .0854 | | .005 | .005 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Beryllium, Total | 10 | mg/L | <.000999 | U | .000999 | .000999 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Cadmium, Total | 10 | mg/L | <.0005 | U | .0005 | .0005 | 0.5 | 03/31/2021 | 04/02/2021 | WG175039 |
| Calcium, Total | 10 | mg/L | 123 | | .5 | .5 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Chromium, Total | 10 | mg/L | .0601 | | .002 | .002 | 2.75 | 03/31/2021 | 04/02/2021 | WG175039 |
| Cobalt, Total | 10 | mg/L | .0162 | | .0005 | .0005 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Copper, Total | 10 | mg/L | .00677 | | .002 | .002 | 3 | 03/31/2021 | 04/02/2021 | WG175039 |
| Iron, Total | 10 | mg/L | 10.5 | | .0999 | .0999 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Lead, Total | 10 | mg/L | .00107 | | .000999 | .000999 | 2 | 03/31/2021 | 04/02/2021 | WG175039 |
| Magnesium, Total | 10 | mg/L | 40.9 | | .5 | .5 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Manganese, Total | 10 | mg/L | 1.05 | | .000999 | .000999 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Nickel, Total | 10 | mg/L | .0621 | D | .000999 | .000999 | 2.5 | 03/31/2021 | 04/02/2021 | WG175039 |
| Phosphorus, Total | 10 | mg/L | 3.54 | | .999 | .999 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Potassium, Total | 10 | mg/L | 175 | | .999 | .999 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Selenium, Total | 10 | mg/L | <.005 | U | .005 | .005 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Silver, Total | 10 | mg/L | <.0004 | U | .0004 | .0004 | 1 | 03/31/2021 | 04/02/2021 | WG175039 |
| Sodium, Total | 10 | mg/L | 494 | | .999 | .999 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Thallium, Total | 10 | mg/L | <.000999 | U | .000999 | .000999 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Tin, Total | 10 | mg/L | .00712 | | .005 | .005 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Vanadium, Total | 10 | mg/L | .02 | | .000749 | .000749 | | 03/31/2021 | 04/02/2021 | WG175039 |
| Zinc, Total | 10 | mg/L | .142 | | .005 | .005 | 5 | 03/31/2021 | 04/02/2021 | WG175039 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 04/01/2021 | 04/02/2021 | WG175060 |
| Aluminum, Total | 10 | mg/L | .869 | | .0502 | .0502 | | 04/02/2021 | 04/05/2021 | WG175073 |

*Target Parameter Count for SDG:* 25

| HYDROGEN SULFIDE GAS AT MANHOLE R10-52 | | |
|---|---|---|
| **Instrument #** | **Serial #** | **Calibration Date/Time** |
| RKI Eagle 2 | E2E656 | 03/01/21 @ 09:42 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 23365 | 30 | 03/01/21 @ 09:44 |
| **H2S Readings** | | |
| **Date** | **Daily Max** | **Daily Average** |
| 3/1/2021 | 0.0 | 0.0 |
| 3/2/2021 | 0.0 | 0.0 |
| 3/3/2021 | 0.0 | 0.0 |
| 3/4/2021 | 0.0 | 0.0 |
| 3/5/2021 | 0.0 | 0.0 |
| 3/6/2021 | 0.0 | 0.0 |
| 3/7/2021 | 0.0 | 0.0 |
| 3/8/2021 | 0.0 | 0.0 |
| 3/9/2021 | 0.0 | 0.0 |

**KING COUNTY SOLID WASTE DIVISION**
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: MARCH
YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | | | | | | | | | | | | | | |
| 2 | | 2 | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
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| 15 | | | | | | | | 2 | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | 3 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
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| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | 3 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| TOTAL | 0 | 56000 | 0 | 14000 | 0 | 0 | 0 | 14000 | 0 | 0 | 0 | 0 | 0 | 0 | |

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**King County**
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

May 13, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division DS CC

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of April 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 4/7/21, 4/13/21, 4/20/21, and 4/27/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 4/1/21-4/12/21)
- Leachate Hauling Report (for April)

All results met permit-specified limits. Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Laura Belt, Interim Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Isabel McClure, Interim Supervising Engineer, SWD
Dan Swope, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Natalya Usova, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** APRIL **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | pH | Arsenic, As | | Cadmium, Cd | | Chromium, Cr | | Copper, Cu | | Total Soluble Sulfides | Daily Industrial Flow | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LIMIT 1.0 | LOAD 0.27 | LIMIT 0.5 | LOAD 0.17 | LIMIT 2.75 | LOAD 1.20 | LIMIT 3.0 | LOAD 6.89 | LIMIT - 0.1 | LIMIT 2,700,000 (GPD) | |
| 1 | | | | | | | | | | | | 107,800 | |
| 2 | | | | | | | | | | | | 112,000 | |
| 3 | | | | | | | | | | | | 112,800 | |
| 4 | | | | | | | | | | | | 102,400 | |
| 5 | | | | | | | | | | | | 1,035,400 | |
| 6 | | | | | | | | | | | | 901,500 | |
| 7 | C | 7.96 | 0.137 | 0.1945 | <0.0005 | 0.0004 | 0.0643 | 0.0913 | 0.00611 | 0.0087 | < 0.1 ppm | 170,200 | |
| 8 | | | | | | | | | | | | 996,600 | |
| 9 | | | | | | | | | | | | 415,000 | |
| 10 | | | | | | | | | | | | 129,100 | |
| 11 | | | | | | | | | | | | 110,700 | |
| 12 | | | | | | | | | | | | 162,400 | |
| 13 | C | 7.54 | 0.119 | 0.1741 | <0.0005 | 0.0004 | 0.0614 | 0.0898 | 0.00555 | 0.0081 | < 0.1 ppm | 175,400 | |
| 14 | | | | | | | | | | | | 212,500 | |
| 15 | | | | | | | | | | | | 105,900 | |
| 16 | | | | | | | | | | | | 112,400 | |
| 17 | | | | | | | | | | | | 112,800 | |
| 18 | | | | | | | | | | | | 108,000 | |
| 19 | | | | | | | | | | | | 117,000 | |
| 20 | C | 8.28 | 0.112 | 0.1056 | <0.0005 | 0.0002 | 0.0611 | 0.0576 | 0.00581 | 0.0055 | < 0.1 ppm | 113,100 | |
| 21 | | | | | | | | | | | | 0 | |
| 22 | | | | | | | | | | | | 892,000 | |
| 23 | | | | | | | | | | | | 348,200 | |
| 24 | | | | | | | | | | | | 115,400 | |
| 25 | | | | | | | | | | | | 111,700 | |
| 26 | | | | | | | | | | | | 110,700 | |
| 27 | C | 7.98 | 0.118 | 0.2068 | <0.0005 | 0.0004 | 0.076 | 0.1332 | 0.00656 | 0.0115 | < 0.1 ppm | 210,100 | |
| 28 | | | | | | | | | | | | 205,400 | |
| 29 | | | | | | | | | | | | 210,100 | |
| 30 | | | | | | | | | | | | 194,300 | |
| 31 | | | | | | | | | | | | N/A | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Docusigned by: Jennifer Yuma
A705F5CA7C27444...
Signature of Principal Executive or Authorized Agent

5/13/2021
Date

| | | | |
|---|---|---|---|
| Monthly Min pH | 7.54 | 4/13/21 | |
| Monthly Max pH | 8.28 | 4/20/21 | |
| Total Monthly Flow (gallons) | 7,810,900 | | |
| Maximum Daily Flow | 1,035,400 | | 4/5/2021 |

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

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King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

*Please Specify Month & Year:* **Month:** APRIL **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | C | 0.00116 | 0.00165 | <0.0001 | 0.00007 | 0.0665 | 0.094 | <0.0004 | 0.0003 | 0.12 | 0.170 | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | C | 0.00105 | 0.00154 | <0.0001 | 0.00007 | 0.0659 | 0.096 | <0.0004 | 0.0003 | 0.103 | 0.151 | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | C | 0.00105 | 0.00099 | <0.0001 | 0.00005 | 0.0608 | 0.057 | <0.0004 | 0.0002 | 0.0999 | 0.094 | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | C | 0.00125 | 0.00219 | <0.0001 | 0.00009 | 0.0756 | 0.132 | <0.0004 | 0.0004 | 0.122 | 0.214 | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by: Jennifer Yuen 5/13/2021

Signature of Principal Executive or Authorized Agent Date

A1FECUAB7F44A

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: 9C83AE42-04A5-4759-A43F-4667627500E0

King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

*Please Specify Month & Year:* **Month:** APRIL **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

**All units are PPM unless otherwise noted.**

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) | Notes |
|---|---|---|---|---|
| 1 | 0.0 | 0.0 | Y | |
| 2 | 0.0 | 0.0 | Y | |
| 3 | 0.0 | 0.0 | Y | |
| 4 | 0.0 | 0.0 | Y | |
| 5 | 0.0 | 0.0 | Y | |
| 6 | 0.0 | 0.0 | Y | |
| 7 | 0.0 | 0.0 | Y | |
| 8 | 0.0 | 0.0 | Y | |
| 9 | 0.0 | 0.0 | Y | |
| 10 | 0.0 | 0.0 | Y | |
| 11 | 0.0 | 0.0 | Y | |
| 12 | 0.0 | 0.0 | Y | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
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| 30 | | | | |
| 31 | | | | |

Monthly **MAX** 0.0

Monthly **AVG** 0.0

4/1/21-4/12/21

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Jennifer Paine
A7BEF0A5C02F44A...
Signature of Principal Executive or Authorized Agent

5/13/2021
Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: 9C83AE42-04A5-4759-A43F-4667627500E0

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/16/2021
Report Group: CHLS-P_041421

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210407P**
SDG/Lab Sample ID: **16157 / L76651-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **04/07/2021**
LoginDate: **04/07/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .562 | | .05 | .05 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Antimony, Total | 10 | mg/L | .0171 | | .003 | .003 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Arsenic, Total | 10 | mg/L | .137 | | .0005 | .0005 | 1 | 04/08/2021 | 04/08/2021 | WG175135 |
| Barium, Total | 10 | mg/L | .0907 | | .005 | .005 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Beryllium, Total | 10 | mg/L | <.000999 | U | .000999 | .000999 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Cadmium, Total | 10 | mg/L | <.0005 | U | .0005 | .0005 | 0.5 | 04/08/2021 | 04/08/2021 | WG175135 |
| Calcium, Total | 10 | mg/L | 116 | | .5 | .5 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Chromium, Total | 10 | mg/L | .0643 | | .002 | .002 | 2.75 | 04/08/2021 | 04/08/2021 | WG175135 |
| Cobalt, Total | 10 | mg/L | .0165 | | .0005 | .0005 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Copper, Total | 10 | mg/L | .00611 | | .002 | .002 | 3 | 04/08/2021 | 04/08/2021 | WG175135 |
| Iron, Total | 10 | mg/L | 9.2 | | .0999 | .0999 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Lead, Total | 10 | mg/L | .00116 | | .000999 | .000999 | 2 | 04/08/2021 | 04/08/2021 | WG175135 |
| Magnesium, Total | 10 | mg/L | 39.4 | | .5 | .5 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Manganese, Total | 10 | mg/L | 1.06 | | .000999 | .000999 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Nickel, Total | 10 | mg/L | .0665 | | .000999 | .000999 | 2.5 | 04/08/2021 | 04/08/2021 | WG175135 |
| Phosphorus, Total | 10 | mg/L | 3.29 | | .999 | .999 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Potassium, Total | 10 | mg/L | 178 | | .999 | .999 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Selenium, Total | 10 | mg/L | <.005 | U | .005 | .005 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Silver, Total | 10 | mg/L | <.0004 | U | .0004 | .0004 | 1 | 04/08/2021 | 04/08/2021 | WG175135 |
| Sodium, Total | 10 | mg/L | 500 | | .999 | .999 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Thallium, Total | 10 | mg/L | <.000999 | U | .000999 | .000999 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Tin, Total | 10 | mg/L | .0083 | | .005 | .005 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Vanadium, Total | 10 | mg/L | .0196 | | .000749 | .000749 | | 04/08/2021 | 04/08/2021 | WG175135 |
| Zinc, Total | 10 | mg/L | .12 | | .005 | .005 | 5 | 04/08/2021 | 04/08/2021 | WG175135 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 04/08/2021 | 04/09/2021 | WG175162 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/22/2021
Report Group: CHLS-P_042021

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210413P**
SDG/Lab Sample ID: **16160 / L76726-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **04/13/2021**
LoginDate: **04/13/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .321 | | .0508 | .0508 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Antimony, Total | 10 | mg/L | .015 | | .00305 | .00305 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Arsenic, Total | 10 | mg/L | .119 | | .000508 | .000508 | 1 | 04/14/2021 | 04/15/2021 | WG175217 |
| Barium, Total | 10 | mg/L | .0867 | | .00508 | .00508 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Beryllium, Total | 10 | mg/L | <.00102 | U | .00102 | .00102 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Cadmium, Total | 10 | mg/L | <.000508 | U | .000508 | .000508 | 0.5 | 04/14/2021 | 04/15/2021 | WG175217 |
| Calcium, Total | 10 | mg/L | 115 | | .508 | .508 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Chromium, Total | 10 | mg/L | .0614 | | .00203 | .00203 | 2.75 | 04/14/2021 | 04/15/2021 | WG175217 |
| Cobalt, Total | 10 | mg/L | .0158 | | .000508 | .000508 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Copper, Total | 10 | mg/L | .00555 | | .00203 | .00203 | 3 | 04/14/2021 | 04/15/2021 | WG175217 |
| Iron, Total | 10 | mg/L | 8.15 | | .102 | .102 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Lead, Total | 10 | mg/L | .00105 | | .00102 | .00102 | 2 | 04/14/2021 | 04/15/2021 | WG175217 |
| Magnesium, Total | 10 | mg/L | 40.8 | | .508 | .508 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Manganese, Total | 10 | mg/L | 1.03 | | .00102 | .00102 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Nickel, Total | 10 | mg/L | .0659 | | .00102 | .00102 | 2.5 | 04/14/2021 | 04/15/2021 | WG175217 |
| Phosphorus, Total | 10 | mg/L | 3.01 | | 1.02 | 1.02 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Potassium, Total | 10 | mg/L | 179 | | 1.02 | 1.02 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Selenium, Total | 10 | mg/L | <.00508 | U | .00508 | .00508 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Silver, Total | 10 | mg/L | <.000406 | U | .000406 | .000406 | 1 | 04/14/2021 | 04/15/2021 | WG175217 |
| Sodium, Total | 10 | mg/L | 504 | | 1.02 | 1.02 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Thallium, Total | 10 | mg/L | <.00102 | U | .00102 | .00102 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Tin, Total | 10 | mg/L | .00812 | | .00508 | .00508 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Vanadium, Total | 10 | mg/L | .0191 | D | .000762 | .000762 | | 04/14/2021 | 04/15/2021 | WG175217 |
| Zinc, Total | 10 | mg/L | .103 | | .00508 | .00508 | 5 | 04/14/2021 | 04/15/2021 | WG175217 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 04/15/2021 | 04/16/2021 | WG175251 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/27/2021
Report Group: CHLS-P_042721

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS-210420P**
SDG/Lab Sample ID: **16094 / L76733-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **04/20/2021**
LoginDate: **04/20/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .435 | | .0501 | .0501 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Antimony, Total | 10 | mg/L | .013 | | .00301 | .00301 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Arsenic, Total | 10 | mg/L | .112 | | .000501 | .000501 | 1 | 04/21/2021 | 04/26/2021 | WG175352 |
| Barium, Total | 10 | mg/L | .0827 | | .00501 | .00501 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Cadmium, Total | 10 | mg/L | <.000501 | U | .000501 | .000501 | 0.5 | 04/21/2021 | 04/26/2021 | WG175352 |
| Calcium, Total | 10 | mg/L | 111 | | .501 | .501 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Chromium, Total | 10 | mg/L | .0611 | | .00201 | .00201 | 2.75 | 04/21/2021 | 04/26/2021 | WG175352 |
| Cobalt, Total | 10 | mg/L | .0154 | | .000501 | .000501 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Copper, Total | 10 | mg/L | .00581 | | .00201 | .00201 | 3 | 04/21/2021 | 04/26/2021 | WG175352 |
| Iron, Total | 10 | mg/L | 7.78 | | .1 | .1 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Lead, Total | 10 | mg/L | .00105 | | .001 | .001 | 2 | 04/21/2021 | 04/26/2021 | WG175352 |
| Magnesium, Total | 10 | mg/L | 39.8 | | .501 | .501 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Manganese, Total | 10 | mg/L | .958 | | .001 | .001 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Nickel, Total | 10 | mg/L | .0608 | | .001 | .001 | 2.5 | 04/21/2021 | 04/26/2021 | WG175352 |
| Phosphorus, Total | 10 | mg/L | 2.77 | | 1 | 1 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Potassium, Total | 10 | mg/L | 182 | | 1 | 1 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Selenium, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Silver, Total | 10 | mg/L | <.000401 | U | .000401 | .000401 | 1 | 04/21/2021 | 04/26/2021 | WG175352 |
| Sodium, Total | 10 | mg/L | 530 | | 1 | 1 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Thallium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Tin, Total | 10 | mg/L | .0073 | | .00501 | .00501 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Vanadium, Total | 10 | mg/L | .02 | | .000752 | .000752 | | 04/21/2021 | 04/26/2021 | WG175352 |
| Zinc, Total | 10 | mg/L | .0999 | | .00501 | .00501 | 5 | 04/21/2021 | 04/26/2021 | WG175352 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 04/22/2021 | 04/23/2021 | WG175380 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/07/2021
Report Group: CHLS-P_050421

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210427P**
SDG/Lab Sample ID: **16134 / L76739-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **04/27/2021**
LoginDate: **04/27/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .658 | | .0499 | .0499 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Antimony, Total | 10 | mg/L | .0146 | | .00299 | .00299 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Arsenic, Total | 10 | mg/L | .118 | | .000499 | .000499 | 1 | 04/28/2021 | 04/30/2021 | WG175443 |
| Barium, Total | 10 | mg/L | .0845 | | .00499 | .00499 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Beryllium, Total | 10 | mg/L | <.000997 | U | .000997 | .000997 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Cadmium, Total | 10 | mg/L | <.000499 | U | .000499 | .000499 | 0.5 | 04/28/2021 | 04/30/2021 | WG175443 |
| Calcium, Total | 10 | mg/L | 106 | | .499 | .499 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Chromium, Total | 10 | mg/L | .076 | | .00199 | .00199 | 2.75 | 04/28/2021 | 04/30/2021 | WG175443 |
| Cobalt, Total | 10 | mg/L | .0182 | | .000499 | .000499 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Copper, Total | 10 | mg/L | .00656 | | .00199 | .00199 | 3 | 04/28/2021 | 04/30/2021 | WG175443 |
| Iron, Total | 10 | mg/L | 8.3 | | .0997 | .0997 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Lead, Total | 10 | mg/L | .00125 | | .000997 | .000997 | 2 | 04/28/2021 | 04/30/2021 | WG175443 |
| Magnesium, Total | 10 | mg/L | 44.5 | | .499 | .499 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Manganese, Total | 10 | mg/L | .904 | | .000997 | .000997 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Nickel, Total | 10 | mg/L | .0756 | | .000997 | .000997 | 2.5 | 04/28/2021 | 04/30/2021 | WG175443 |
| Phosphorus, Total | 10 | mg/L | 3.47 | | .997 | .997 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Potassium, Total | 10 | mg/L | 203 | | .997 | .997 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Selenium, Total | 10 | mg/L | <.00499 | U | .00499 | .00499 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Silver, Total | 10 | mg/L | <.000399 | U | .000399 | .000399 | 1 | 04/28/2021 | 04/30/2021 | WG175443 |
| Sodium, Total | 10 | mg/L | 576 | | .997 | .997 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Thallium, Total | 10 | mg/L | <.000997 | U | .000997 | .000997 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Tin, Total | 10 | mg/L | .0078 | | .00499 | .00499 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Vanadium, Total | 10 | mg/L | .0226 | | .000748 | .000748 | | 04/28/2021 | 04/30/2021 | WG175443 |
| Zinc, Total | 10 | mg/L | .122 | | .00499 | .00499 | 5 | 04/28/2021 | 04/30/2021 | WG175443 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 04/28/2021 | 04/29/2021 | WG175457 |

*Target Parameter Count for SDG:* 25

| HYDROGEN SULFIDE GAS AT MANHOLE R10-52 | | |
|---|---|---|
| **Instrument #** | **Serial #** | **Calibration Date/Time** |
| RKI Eagle 2 | E2E656 | 03/26/21 @ 14:56 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 31452 | 30 | 03/30/21 @ 14:01 |
| **H2S Readings** | | |
| **Date** | **Daily Max** | **Daily Average** |
| 4/1/2021 | 0.0 | 0.0 |
| 4/2/2021 | 0.0 | 0.0 |
| 4/3/2021 | 0.0 | 0.0 |
| 4/4/2021 | 0.0 | 0.0 |
| 4/5/2021 | 0.0 | 0.0 |
| 4/6/2021 | 0.0 | 0.0 |
| 4/7/2021 | 0.0 | 0.0 |
| 4/8/2021 | 0.0 | 0.0 |
| 4/9/2021 | 0.0 | 0.0 |
| 4/10/2021 | 0.0 | 0.0 |
| 4/11/2021 | 0.0 | 0.0 |
| 4/12/2021 | 0.0 | 0.0 |

LEACHATE HAULING REPORT
TANKER LOADS

MONTH: APRIL
YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | | | | | | | | | | | | | | |
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| 20 | | 3.00 | | 1.00 | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| TOTAL | 0 | 21000.00 | 0 | 7000.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | |

**King County**
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

June 15, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division DS NW FOR CC

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of May 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 5/4/21, 5/12/21, 5/18/21, and 5/25/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 5/4/21-5/13/21)
- Leachate Hauling Report (for May)

At monitoring location A90021, there was one arsenic loading exceedance measured during the month of May. All other results met permit-specified limits. KCIW was notified of the exceedance as follows:

| Date of Exceedance | Date Reported to KCIW |
|---|---|
| 5/12/21 | 5/24/21 |

Details of this exceedance will be provided in one 14-day report appended to this SMR, per KCIW guidance.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Laura Belt, Interim Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Jamey Barker, Supervising Engineer, SWD
Dan Swope, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD

Natalya Usova, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD

Printed on recycled paper

DocuSign

## Certificate Of Completion

Envelope Id: 2618DE42D729413CA668066BB4B0B913
Subject: Please DocuSign: MAY_CoverLetter_SMR.docx
Source Envelope:
Document Pages: 2
Certificate Pages: 1
AutoNav: Disabled
EnvelopeId Stamping: Disabled
Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Signatures: 0
Initials: 1

Status: Completed

Envelope Originator:
Nina Wester
401 5th Ave
Suite 100
Seattle, WA 98104
Nina.Wester@kingcounty.gov
IP Address: 198.49.222.20

## Record Tracking

Status: Original
6/15/2021 10:48:43 AM
Security Appliance Status: Connected
Storage Appliance Status: Connected

Holder: Nina Wester
Nina.Wester@kingcounty.gov
Pool: FedRamp
Pool: King County General (ITD)

Location: DocuSign

Location: DocuSign

| Signer Events | Signature | Timestamp |
|---|---|---|
| Nina Wester<br>Nina.Wester@kingcounty.gov<br>King County<br>Security Level: Email, Account Authentication (None) | DS<br>NW<br><br>Signature Adoption: Pre-selected Style<br>Using IP Address: 198.49.222.20 | Sent: 6/15/2021 10:49:06 AM<br>Viewed: 6/15/2021 10:49:16 AM<br>Signed: 6/15/2021 10:56:38 AM<br>Freeform Signing |

**Electronic Record and Signature Disclosure:**
Not Offered via DocuSign

| In Person Signer Events | Signature | Timestamp |
|---|---|---|

| Editor Delivery Events | Status | Timestamp |
|---|---|---|

| Agent Delivery Events | Status | Timestamp |
|---|---|---|

| Intermediary Delivery Events | Status | Timestamp |
|---|---|---|

| Certified Delivery Events | Status | Timestamp |
|---|---|---|

| Carbon Copy Events | Status | Timestamp |
|---|---|---|

| Witness Events | Signature | Timestamp |
|---|---|---|

| Notary Events | Signature | Timestamp |
|---|---|---|

| Envelope Summary Events | Status | Timestamps |
|---|---|---|
| Envelope Sent | Hashed/Encrypted | 6/15/2021 10:49:06 AM |
| Certified Delivered | Security Checked | 6/15/2021 10:49:16 AM |
| Signing Complete | Security Checked | 6/15/2021 10:56:38 AM |
| Completed | Security Checked | 6/15/2021 10:56:38 AM |

| Payment Events | Status | Timestamps |
|---|---|---|

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

*Please Specify Month & Year:* Month: MAY 2021 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

| Sample Date (circle) | Sample Type* | pH | Arsenic, As LIMIT 1.0 | Arsenic, As LOAD 0.27 | Cadmium, Cd LIMIT 0.5 | Cadmium, Cd LOAD 0.17 | Chromium, Cr LIMIT 2.75 | Chromium, Cr LOAD 1.20 | Copper, Cu LIMIT 3.0 | Copper, Cu LOAD 6.89 | Total Soluble Sulfides LIMIT - 0.1 | Daily Industrial Flow LIMIT 2,700,000 (GPD) | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | 0 | |
| 2 | | | | | | | | | | | | 0 | |
| 3 | | | | | | | | | | | | 203,600 | |
| 4 | C | 8.34 | 0.126 | 0.2221 | <0.0005 | 0.0004 | 0.0835 | 0.1472 | 0.007 | 0.0123 | < 0.1 ppm | 211,400 | |
| 5 | | | | | | | | | | | | 262,800 | |
| 6 | | | | | | | | | | | | 211,200 | |
| 7 | | | | | | | | | | | | 212,200 | |
| 8 | | | | | | | | | | | | 212,400 | |
| 9 | | | | | | | | | | | | 216,100 | |
| 10 | | | | | | | | | | | | 62,100 | |
| 11 | | | | | | | | | | | | 207,200 | |
| 12 | C | 8.38 | 0.139 | 0.3377 | <0.0005 | 0.0006 | 0.0881 | 0.2140 | 0.00702 | 0.0171 | < 0.1 ppm | 291,300 | |
| 13 | | | | | | | | | | | | 213,400 | |
| 14 | | | | | | | | | | | | 202,400 | |
| 15 | | | | | | | | | | | | 112,900 | |
| 16 | | | | | | | | | | | | 0 | |
| 17 | | | | | | | | | | | | 173,400 | |
| 18 | C | 8.25 | 0.144 | 0.1795 | <0.0005 | 0.0003 | 0.0926 | 0.1155 | 0.00645 | 0.0080 | < 0.1 ppm | 149,500 | |
| 19 | | | | | | | | | | | | 156,000 | |
| 20 | | | | | | | | | | | | 163,300 | |
| 21 | | | | | | | | | | | | 164,600 | |
| 22 | | | | | | | | | | | | 164,400 | |
| 23 | | | | | | | | | | | | 162,000 | |
| 24 | | | | | | | | | | | | 163,000 | |
| 25 | C | 8.47 | 0.155 | 0.2125 | <0.0005 | 0.0003 | 0.103 | 0.1412 | 0.00487 | 0.0067 | < 0.1 ppm | 164,400 | |
| 26 | | | | | | | | | | | | 139,700 | |
| 27 | | | | | | | | | | | | 163,200 | |
| 28 | | | | | | | | | | | | 164,700 | |
| 29 | | | | | | | | | | | | 191,800 | |
| 30 | | | | | | | | | | | | 164,300 | |
| 31 | | | | | | | | | | | | 157,100 | |

| | | |
|---|---|---|
| Monthly Min pH | 8.25 | 5/18/21 |
| Monthly Max pH | 8.47 | 5/25/21 |

| | |
|---|---|
| Total Monthly Flow (gallons) | 5,060,400 |
| Maximum Daily Flow | 291,300 |

5/12/2021

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by: Jun 15, 2021

Signature of Principal Executive or Authorized Agent Date

A70EEC0AE02F44A...

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: 1CAF5101-ECD3-4868-BE6C-DD589DB46D07

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** MAY **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | C | 0.0011 | 0.00194 | <0.0001 | 0.00009 | 0.0837 | 0.148 | <0.0004 | 0.0004 | 0.129 | 0.227 | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | C | 0.00118 | 0.00287 | <0.0001 | 0.00012 | 0.0916 | 0.223 | <0.0004 | 0.0005 | 0.156 | 0.379 | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | C | 0.0012 | 0.00150 | <0.0001 | 0.00006 | 0.0914 | 0.114 | <0.0004 | 0.0002 | 0.162 | 0.202 | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | C | <0.000996 | 0.00069 | <0.0001 | 0.00007 | 0.106 | 0.145 | <0.0004 | 0.0003 | 0.112 | 0.154 | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Jennifer Yuma
A7DEE0DAE0274A...

Signature of Principal Executive or Authorized Agent

Jun 15, 2021
Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

DocuSign Envelope ID: 1CAF5101-ECD3-4868-BE6C-DD589DB46D07

King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

*Please Specify Month & Year:* **Month:** MAY **2021**

This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | 0.0 | 0.0 | Y |
| 5 | 0.0 | 0.0 | Y |
| 6 | 0.0 | 0.0 | Y |
| 7 | 0.0 | 0.0 | Y |
| 8 | 0.0 | 0.0 | Y |
| 9 | 0.0 | 0.0 | Y |
| 10 | 0.0 | 0.0 | Y |
| 11 | 0.0 | 0.0 | Y |
| 12 | 0.0 | 0.0 | Y |
| 13 | 0.0 | 0.0 | Y |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| Monthly **MAX** | 0.0 | 5/4/21-5/13/21 | |
| Monthly **AVG** | 0.0 | | |

**Notes**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Jennifer Yuen
A76EE6DAE02F4A...
Signature of Principal Executive or Authorized Agent

Jun 15, 2021
Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: 1CAF5101-ECD3-4868-BE6C-DD589DB46D07

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/12/2021
Report Group: CHLS-P_051121

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210504P**
SDG/Lab Sample ID: **16135 / L76813-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **05/04/2021**
LoginDate: **05/04/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .593 | | .0505 | .0505 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Antimony, Total | 10 | mg/L | .0169 | | .00303 | .00303 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Arsenic, Total | 10 | mg/L | .126 | | .000505 | .000505 | 1 | 05/06/2021 | 05/10/2021 | WG175584 |
| Beryllium, Total | 10 | mg/L | <.00101 | U | .00101 | .00101 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Cadmium, Total | 10 | mg/L | <.000505 | U | .000505 | .000505 | 0.5 | 05/06/2021 | 05/10/2021 | WG175584 |
| Calcium, Total | 10 | mg/L | 80.2 | | .505 | .505 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Chromium, Total | 10 | mg/L | .0835 | | .00202 | .00202 | 2.75 | 05/06/2021 | 05/10/2021 | WG175584 |
| Cobalt, Total | 10 | mg/L | .0202 | | .000505 | .000505 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Copper, Total | 10 | mg/L | .007 | | .00202 | .00202 | 3 | 05/06/2021 | 05/10/2021 | WG175584 |
| Iron, Total | 10 | mg/L | 8.01 | | .101 | .101 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Lead, Total | 10 | mg/L | .0011 | | .00101 | .00101 | 2 | 05/06/2021 | 05/10/2021 | WG175584 |
| Magnesium, Total | 10 | mg/L | 49.7 | | .505 | .505 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Manganese, Total | 10 | mg/L | .443 | | .00101 | .00101 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Nickel, Total | 10 | mg/L | .0837 | | .00101 | .00101 | 2.5 | 05/06/2021 | 05/10/2021 | WG175584 |
| Phosphorus, Total | 10 | mg/L | 3.93 | | 1.01 | 1.01 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Potassium, Total | 10 | mg/L | 242 | | 1.01 | 1.01 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Selenium, Total | 10 | mg/L | <.00505 | U | .00505 | .00505 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Silver, Total | 10 | mg/L | <.000404 | U | .000404 | .000404 | 1 | 05/06/2021 | 05/10/2021 | WG175584 |
| Sodium, Total | 10 | mg/L | 667 | | 1.01 | 1.01 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Thallium, Total | 10 | mg/L | <.00101 | U | .00101 | .00101 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Tin, Total | 10 | mg/L | .00798 | | .00505 | .00505 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Vanadium, Total | 10 | mg/L | .0263 | | .000757 | .000757 | | 05/06/2021 | 05/10/2021 | WG175584 |
| Zinc, Total | 10 | mg/L | .129 | | .00505 | .00505 | 5 | 05/06/2021 | 05/10/2021 | WG175584 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 05/06/2021 | 05/06/2021 | WG175591 |
| Barium, Total | 10 | mg/L | .0551 | | .00512 | .00512 | | 05/10/2021 | 05/11/2021 | WG175666 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/19/2021
Report Group: CHLS-P_051921

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210512P**
SDG/Lab Sample ID: **16258 / L76882-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **05/12/2021**
LoginDate: **05/12/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .597 | | .0504 | .0504 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Antimony, Total | 10 | mg/L | .015 | | .00303 | .00303 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Arsenic, Total | 10 | mg/L | .139 | | .000504 | .000504 | 1 | 05/13/2021 | 05/17/2021 | WG175732 |
| Barium, Total | 10 | mg/L | .0581 | | .00504 | .00504 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Beryllium, Total | 10 | mg/L | <.00101 | U | .00101 | .00101 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Cadmium, Total | 10 | mg/L | <.000504 | U | .000504 | .000504 | 0.5 | 05/13/2021 | 05/17/2021 | WG175732 |
| Calcium, Total | 10 | mg/L | 84.3 | | .504 | .504 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Chromium, Total | 10 | mg/L | .0881 | | .00202 | .00202 | 2.75 | 05/13/2021 | 05/17/2021 | WG175732 |
| Cobalt, Total | 10 | mg/L | .0223 | | .000504 | .000504 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Copper, Total | 10 | mg/L | .00702 | | .00202 | .00202 | 3 | 05/13/2021 | 05/17/2021 | WG175732 |
| Iron, Total | 10 | mg/L | 7.92 | | .101 | .101 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Lead, Total | 10 | mg/L | .00118 | | .00101 | .00101 | 2 | 05/13/2021 | 05/17/2021 | WG175732 |
| Magnesium, Total | 10 | mg/L | 51.4 | | .504 | .504 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Manganese, Total | 10 | mg/L | .549 | | .00101 | .00101 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Nickel, Total | 10 | mg/L | .0916 | | .00101 | .00101 | 2.5 | 05/13/2021 | 05/17/2021 | WG175732 |
| Phosphorus, Total | 10 | mg/L | 4.62 | | 1.01 | 1.01 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Potassium, Total | 10 | mg/L | 258 | | 1.01 | 1.01 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Selenium, Total | 10 | mg/L | <.00504 | U | .00504 | .00504 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Silver, Total | 10 | mg/L | <.000403 | U | .000403 | .000403 | 1 | 05/13/2021 | 05/17/2021 | WG175732 |
| Sodium, Total | 10 | mg/L | 721 | | 1.01 | 1.01 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Thallium, Total | 10 | mg/L | <.00101 | U | .00101 | .00101 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Tin, Total | 10 | mg/L | .0079 | | .00504 | .00504 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Vanadium, Total | 10 | mg/L | .0292 | | .000757 | .000757 | | 05/13/2021 | 05/17/2021 | WG175732 |
| Zinc, Total | 10 | mg/L | .156 | | .00504 | .00504 | 5 | 05/13/2021 | 05/17/2021 | WG175732 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 05/17/2021 | 05/18/2021 | WG175780 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/26/2021
Report Group: CHLS-P_052521

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210518P**
SDG/Lab Sample ID: **16194 / L76907-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **05/18/2021**
LoginDate: **05/18/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .684 | | .0515 | .0515 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Antimony, Total | 10 | mg/L | .0157 | | .00309 | .00309 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Arsenic, Total | 10 | mg/L | .144 | | .000515 | .000515 | 1 | 05/19/2021 | 05/20/2021 | WG175819 |
| Barium, Total | 10 | mg/L | .0597 | | .00515 | .00515 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Beryllium, Total | 10 | mg/L | <.00103 | U | .00103 | .00103 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Cadmium, Total | 10 | mg/L | <.000515 | U | .000515 | .000515 | 0.5 | 05/19/2021 | 05/20/2021 | WG175819 |
| Calcium, Total | 10 | mg/L | 83.5 | | .515 | .515 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Chromium, Total | 10 | mg/L | .0926 | | .00206 | .00206 | 2.75 | 05/19/2021 | 05/20/2021 | WG175819 |
| Cobalt, Total | 10 | mg/L | .0231 | | .000515 | .000515 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Copper, Total | 10 | mg/L | .00645 | | .00206 | .00206 | 3 | 05/19/2021 | 05/20/2021 | WG175819 |
| Iron, Total | 10 | mg/L | 7.79 | | .103 | .103 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Lead, Total | 10 | mg/L | .0012 | | .00103 | .00103 | 2 | 05/19/2021 | 05/20/2021 | WG175819 |
| Magnesium, Total | 10 | mg/L | 52.1 | | .515 | .515 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Manganese, Total | 10 | mg/L | .575 | | .00103 | .00103 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Nickel, Total | 10 | mg/L | .0914 | | .00103 | .00103 | 2.5 | 05/19/2021 | 05/20/2021 | WG175819 |
| Phosphorus, Total | 10 | mg/L | 4.59 | | 1.03 | 1.03 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Potassium, Total | 10 | mg/L | 272 | | 1.03 | 1.03 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Selenium, Total | 10 | mg/L | <.00515 | U | .00515 | .00515 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Silver, Total | 10 | mg/L | <.000412 | U | .000412 | .000412 | 1 | 05/19/2021 | 05/20/2021 | WG175819 |
| Sodium, Total | 10 | mg/L | 751 | | 1.03 | 1.03 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Thallium, Total | 10 | mg/L | <.00103 | U | .00103 | .00103 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Tin, Total | 10 | mg/L | .009 | | .00515 | .00515 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Vanadium, Total | 10 | mg/L | .0306 | | .000772 | .000772 | | 05/19/2021 | 05/20/2021 | WG175819 |
| Zinc, Total | 10 | mg/L | .162 | | .00515 | .00515 | 5 | 05/19/2021 | 05/20/2021 | WG175819 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 05/19/2021 | 05/20/2021 | WG175845 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 06/04/2021
Report Group: CHLS-P_060121

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210525P**
SDG/Lab Sample ID: **16201 / L76952-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **05/25/2021**
LoginDate: **05/25/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .291 | | .0498 | .0498 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Antimony, Total | 10 | mg/L | .0172 | | .00299 | .00299 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Arsenic, Total | 10 | mg/L | .155 | | .000498 | .000498 | 1 | 05/26/2021 | 05/27/2021 | WG175971 |
| Barium, Total | 10 | mg/L | .0295 | | .00498 | .00498 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Beryllium, Total | 10 | mg/L | <.000996 | U | .000996 | .000996 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Cadmium, Total | 10 | mg/L | <.000498 | U | .000498 | .000498 | 0.5 | 05/26/2021 | 05/27/2021 | WG175971 |
| Calcium, Total | 10 | mg/L | 58 | | .498 | .498 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Chromium, Total | 10 | mg/L | .103 | | .00199 | .00199 | 2.75 | 05/26/2021 | 05/27/2021 | WG175971 |
| Cobalt, Total | 10 | mg/L | .024 | | .000498 | .000498 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Copper, Total | 10 | mg/L | .00487 | | .00199 | .00199 | 3 | 05/26/2021 | 05/27/2021 | WG175971 |
| Iron, Total | 10 | mg/L | 6.42 | | .0996 | .0996 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Lead, Total | 10 | mg/L | <.000996 | U | .000996 | .000996 | 2 | 05/26/2021 | 05/27/2021 | WG175971 |
| Magnesium, Total | 10 | mg/L | 55.2 | | .498 | .498 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Manganese, Total | 10 | mg/L | .21 | | .000996 | .000996 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Nickel, Total | 10 | mg/L | .106 | | .000996 | .000996 | 2.5 | 05/26/2021 | 05/27/2021 | WG175971 |
| Phosphorus, Total | 10 | mg/L | 3.25 | | .996 | .996 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Potassium, Total | 10 | mg/L | 311 | | .996 | .996 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Selenium, Total | 10 | mg/L | <.00498 | U | .00498 | .00498 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Silver, Total | 10 | mg/L | <.000398 | U | .000398 | .000398 | 1 | 05/26/2021 | 05/27/2021 | WG175971 |
| Sodium, Total | 10 | mg/L | 830 | | .996 | .996 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Thallium, Total | 10 | mg/L | <.000996 | U | .000996 | .000996 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Tin, Total | 10 | mg/L | .0104 | | .00498 | .00498 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Vanadium, Total | 10 | mg/L | .032 | D | .000747 | .000747 | | 05/26/2021 | 05/27/2021 | WG175971 |
| Zinc, Total | 10 | mg/L | .112 | | .00498 | .00498 | 5 | 05/26/2021 | 05/27/2021 | WG175971 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 05/26/2021 | 05/27/2021 | WG175980 |

*Target Parameter Count for SDG:* 25

| HYDROGEN SULFIDE GAS AT MANHOLE R10-52 | | |
|---|---|---|
| **Instrument #** | **Serial #** | **Calibration Date/Time** |
| RKI Eagle 2 | E2E656 | 03/26/21 @ 14:56 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 25340 | 30 | 05/04/21 @ 10:17 |
| **H2S Readings** | | |
| **Date** | **Daily Max** | **Daily Average** |
| 5/4/2021 | 0.0 | 0.0 |
| 5/5/2021 | 0.0 | 0.0 |
| 5/6/2021 | 0.0 | 0.0 |
| 5/7/2021 | 0.0 | 0.0 |
| 5/8/2021 | 0.0 | 0.0 |
| 5/9/2021 | 0.0 | 0.0 |
| 5/10/2021 | 0.0 | 0.0 |
| 5/11/2021 | 0.0 | 0.0 |
| 5/12/2021 | 0.0 | 0.0 |
| 5/13/2021 | 0.0 | 0.0 |

**KING COUNTY SOLID WASTE DIVISION**
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: MAY
YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | | | | | | | | | | | | | | |
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| 28 | | | | | | | | | | | | | | | |
| 29 | | | | 2.00 | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| TOTAL | 0 | 0.00 | 0 | 14000.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | |

King County
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

July 15, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division

DS
CC

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of June 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 6/2/21, 6/8/21, 6/15/21, 6/22/21 and 6/30/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 6//21-6//21)
- Leachate Hauling Report (for June)

At monitoring location A90021, there were two dissolved sulfide exceedances measured during the month of June. All other results met permit-specified limits. KCIW was notified of the exceedance as follows:

| Date of Exceedance | Dissolved Sulfide |
|---|---|
| 6/22/21 | 0.8 |
| 6/30/21 | 0.6 |

Details of these exceedances were provided in a 14-day report submitted to KCIW on July 9, 2021.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Jamey Barker, Supervising Engineer, SWD

DocuSign Envelope ID: 9A85B361-7160-4A14-875D-A0781C7D60CC

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** JUNE **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | pH | Arsenic, As | | Cadmium, Cd | | Chromium, Cr | | Copper, Cu | | Total Soluble Sulfides | Daily Industrial Flow | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LIMIT 1.0 | LOAD 0.27 | LIMIT 0.5 | LOAD 0.17 | LIMIT 2.75 | LOAD 1.20 | LIMIT 3.0 | LOAD 6.89 | LIMIT - 0.1 | LIMIT 2,700,000 (GPD) | |
| 1 | | | | | | | | | | | | 166,700 | |
| 2 | C | 8.21 | 0.166 | 0.2246 | <0.0005 | 0.0003 | 0.109 | 0.1474 | 0.00669 | 0.0090 | < 0.1 | 162,200 | |
| 3 | | | | | | | | | | | | 0 | |
| 4 | | | | | | | | | | | | 0 | |
| 5 | | | | | | | | | | | | 137,300 | |
| 6 | | | | | | | | | | | | 165,200 | |
| 7 | | | | | | | | | | | | 0 | |
| 8 | C | 8.47 | 0.158 | 0.2177 | <0.0005 | 0.0003 | 0.104 | 0.1433 | 0.00514 | 0.0071 | < 0.1 | 0 | |
| 9 | | | | | | | | | | | | 0 | |
| 10 | | | | | | | | | | | | 0 | |
| 11 | | | | | | | | | | | | 163,100 | |
| 12 | | | | | | | | | | | | 0 | |
| 13 | | | | | | | | | | | | 163,100 | |
| 14 | | | | | | | | | | | | 414,000 | |
| 15 | C | 9.71 | 0.174 | 0.1663 | <0.0005 | 0.0002 | 0.109 | 0.1042 | 0.00519 | 0.0050 | < 0.1 | 114,600 | |
| 16 | | | | | | | | | | | | 919,400 | |
| 17 | | | | | | | | | | | | 1,036,400 | |
| 18 | | | | | | | | | | | | 165,600 | |
| 19 | | | | | | | | | | | | 163,200 | |
| 20 | | | | | | | | | | | | 165,100 | |
| 21 | | | | | | | | | | | | 398,200 | |
| 22 | C | 8.52 | .157 | .2167 | <0.0005 | .0003 | .107 | .1477 | .00349 | .00482 | 0.8 | 165,500 | |
| 23 | | | | | | | | | | | | 155,300 | |
| 24 | | | | | | | | | | | | 700 | |
| 25 | | | | | | | | | | | | 163,400 | |
| 26 | | | | | | | | | | | | 165,000 | |
| 27 | | | | | | | | | | | | 164,400 | |
| 28 | | | | | | | | | | | | 161,900 | |
| 29 | | | | | | | | | | | | 996,00 | |
| 30 | C | 8.48 | .163 | .1903 | <0.0005 | .0003 | .0969 | .1131 | .00498 | .0058 | 0.6 | 140,000 | |
| 31 | | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Date: 7/15/2021

DocuSigned by:
A70EEC9AE02F44A...

Signature of Principal Executive or Authorized Agent

| | | | |
|---|---|---|---|
| Monthly Min pH | 8.47 | 6/8/21 | |
| Monthly Max pH | 9.71 | 6/15/21 | |
| Total Monthly Flow (gallons) | 5,715,000 | | |
| Maximum Daily Flow | 1,1036,000 | | 6/17/2021 |

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

DocuSign Envelope ID: 9A85B361-7160-4A14-875D-A0781C7D60CC

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** JUNE **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | C | 0.00124 | 0.00168 | <0.0001 | 0.00007 | 0.116 | 0.157 | <0.0004 | 0.0003 | 0.129 | 0.175 | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | C | 0.0005 | 0.00069 | <0.0001 | 0.00007 | 0.104 | 0.143 | <0.0004 | 0.0003 | 0.133 | 0.183 | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | |
| 15 | C | 0.0005 | 0.00048 | <0.0001 | 0.00005 | 0.114 | 0.109 | <0.0004 | 0.0002 | 0.167 | 0.160 | |
| 16 | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | |
| 22 | C | .00138 | .0019 | <0.0001 | .00006 | .118 | .1629 | <0.0004 | .0002 | .199 | .2747 | |
| 23 | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | |
| 30 | C | .0058 | .0068 | <0.0001 | .00006 | .11 | .1284 | <0.0004 | .0002 | .24 | .2802 | |
| 31 | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

7/15/2021
Date

DocuSigned by:
A70EEC0AF02F44A...
Signature of Principal Executive or Authorized Agent

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

DocuSign Envelope ID: 9A85B361-7160-4A14-875D-A0781C7D60CC

King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** JUNE **2021**____ **This form is available at www.kingcounty.gov/industrialwaste.**

**All units are PPM unless otherwise noted.**

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) | Notes |
|---|---|---|---|---|
| 1 | 0.0 | 0.0 | N | |
| 2 | 2.5 | 0.007 | Y | |
| 3 | 0.0 | 0.0 | N | |
| 4 | 0.0 | 0.0 | N | |
| 5 | 0.0 | 0.0 | N | |
| 6 | 4.0 | 0.04 | Y | |
| 7 | 3.5 | 0.01 | Y | |
| 8 | 2.5 | 0.03 | Y | |
| 9 | 0.0 | 0.0 | N | |
| 10 | 0.0 | 0.0 | N | |
| 11 | 0.0 | 0.0 | N | |
| 12 | | | | |
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| | | |
|---|---|---|
| Monthly **MAX** | 4.0 | 6//21-6//21 |
| Monthly **AVG** | .007 | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

7/15/2021

Date

Signature of Principal Executive or Authorized Agent

DocuSigned by:
A70EEC0AE02F44A...

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

# King County Environmental Laboratory

| | | | |
|---|---|---|---|
| Client: | King County Division of Solid Waste | Report To: | Natalya Usova |
| Date Reported: | 06/10/2021 | | 201 S Jackson St, Suite 701 |
| Report Group: | CHLS-P_060921 | | Seattle, WA 98104-3855 |

| | | | |
|---|---|---|---|
| Client Sample ID: | **LEPS210602P** | CollectDate: | **06/02/2021** |
| SDG/Lab Sample ID: | **16203 / L77042-1** | LoginDate: | **06/02/2021** |
| Project Name: | **SWD-CHLS-P Cedar Hills Leachate Permit** | Matrix: | **LEACHATE** |

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .504 | | .0501 | .0501 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Antimony, Total | 10 | mg/L | .0185 | | .00301 | .00301 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Arsenic, Total | 10 | mg/L | .166 | | .000501 | .000501 | 1 | 06/03/2021 | 06/08/2021 | WG176092 |
| Barium, Total | 10 | mg/L | .0596 | | .00501 | .00501 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Cadmium, Total | 10 | mg/L | <.000501 | U | .000501 | .000501 | 0.5 | 06/03/2021 | 06/08/2021 | WG176092 |
| Calcium, Total | 10 | mg/L | 80.1 | | .501 | .501 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Chromium, Total | 10 | mg/L | .109 | | .002 | .002 | 2.75 | 06/03/2021 | 06/08/2021 | WG176092 |
| Cobalt, Total | 10 | mg/L | .0268 | | .000501 | .000501 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Copper, Total | 10 | mg/L | .00669 | | .002 | .002 | 3 | 06/03/2021 | 06/08/2021 | WG176092 |
| Iron, Total | 10 | mg/L | 6.73 | | .1 | .1 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Lead, Total | 10 | mg/L | .00124 | | .001 | .001 | 2 | 06/03/2021 | 06/08/2021 | WG176092 |
| Magnesium, Total | 10 | mg/L | 58.7 | | .501 | .501 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Manganese, Total | 10 | mg/L | .555 | | .001 | .001 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Nickel, Total | 10 | mg/L | .116 | | .001 | .001 | 2.5 | 06/03/2021 | 06/08/2021 | WG176092 |
| Phosphorus, Total | 10 | mg/L | 3.66 | | 1 | 1 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Potassium, Total | 10 | mg/L | 328 | | 1 | 1 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Selenium, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Silver, Total | 10 | mg/L | <.000401 | U | .000401 | .000401 | 1 | 06/03/2021 | 06/08/2021 | WG176092 |
| Sodium, Total | 10 | mg/L | 936 | | 1 | 1 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Thallium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Tin, Total | 10 | mg/L | .0077 | | .00501 | .00501 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Vanadium, Total | 10 | mg/L | .035 | | .000752 | .000752 | | 06/03/2021 | 06/08/2021 | WG176092 |
| Zinc, Total | 10 | mg/L | .184 | | .00501 | .00501 | 5 | 06/03/2021 | 06/08/2021 | WG176092 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 06/07/2021 | 06/08/2021 | WG176152 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

| | | | |
|---|---|---|---|
| Client: | King County Division of Solid Waste | Report To: | Natalya Usova |
| Date Reported: | 06/17/2021 | | 201 S Jackson St, Suite 701 |
| Report Group: | CHLS-P_061521 | | Seattle, WA 98104-3855 |

| | | | |
|---|---|---|---|
| Client Sample ID: | **LEPS210608P** | CollectDate: | **06/08/2021** |
| SDG/Lab Sample ID: | **16210 / L77089-1** | LoginDate: | **06/08/2021** |
| Project Name: | **SWD-CHLS-P Cedar Hills Leachate Permit** | Matrix: | **LEACHATE** |

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .468 | | .0492 | .0492 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Antimony, Total | 10 | mg/L | .017 | | .00295 | .00295 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Arsenic, Total | 10 | mg/L | .158 | | .000492 | .000492 | 1 | 06/09/2021 | 06/10/2021 | WG176179 |
| Barium, Total | 10 | mg/L | .0353 | | .00492 | .00492 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Beryllium, Total | 10 | mg/L | <.000985 | U | .000985 | .000985 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Cadmium, Total | 10 | mg/L | <.000492 | U | .000492 | .000492 | 0.5 | 06/09/2021 | 06/10/2021 | WG176179 |
| Calcium, Total | 10 | mg/L | 59 | | .492 | .492 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Chromium, Total | 10 | mg/L | .104 | | .00197 | .00197 | 2.75 | 06/09/2021 | 06/10/2021 | WG176179 |
| Cobalt, Total | 10 | mg/L | .0254 | | .000492 | .000492 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Copper, Total | 10 | mg/L | .00514 | | .00197 | .00197 | 3 | 06/09/2021 | 06/10/2021 | WG176179 |
| Iron, Total | 10 | mg/L | 5.82 | | .0985 | .0985 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Lead, Total | 10 | mg/L | <.000985 | U | .000985 | .000985 | 2 | 06/09/2021 | 06/10/2021 | WG176179 |
| Magnesium, Total | 10 | mg/L | 59.1 | | .492 | .492 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Manganese, Total | 10 | mg/L | .3 | | .000985 | .000985 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Nickel, Total | 10 | mg/L | .104 | | .000985 | .000985 | 2.5 | 06/09/2021 | 06/10/2021 | WG176179 |
| Phosphorus, Total | 10 | mg/L | 3.83 | | .985 | .985 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Potassium, Total | 10 | mg/L | 323 | | .985 | .985 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Selenium, Total | 10 | mg/L | <.00492 | U | .00492 | .00492 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Silver, Total | 10 | mg/L | <.000394 | U | .000394 | .000394 | 1 | 06/09/2021 | 06/10/2021 | WG176179 |
| Sodium, Total | 10 | mg/L | 895 | | .985 | .985 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Thallium, Total | 10 | mg/L | <.000985 | U | .000985 | .000985 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Tin, Total | 10 | mg/L | .0102 | | .00492 | .00492 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Vanadium, Total | 10 | mg/L | .0348 | | .000738 | .000738 | | 06/09/2021 | 06/10/2021 | WG176179 |
| Zinc, Total | 10 | mg/L | .133 | | .00492 | .00492 | 5 | 06/09/2021 | 06/10/2021 | WG176179 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 06/09/2021 | 06/11/2021 | WG176185 |

*Target Parameter Count for SDG: 25*

# King County Environmental Laboratory

| | | | |
|---|---|---|---|
| Client: | King County Division of Solid Waste | Report To: | Natalya Usova |
| Date Reported: | 06/23/2021 | | 201 S Jackson St, Suite 701 |
| Report Group: | CHLS-P_062221 | | Seattle, WA 98104-3855 |

| | | | |
|---|---|---|---|
| Client Sample ID: | **LEPS210615P** | CollectDate: | **06/15/2021** |
| SDG/Lab Sample ID: | **16189 / L77124-1** | LoginDate: | **06/15/2021** |
| Project Name: | **SWD-CHLS-P Cedar Hills Leachate Permit** | Matrix: | **LEACHATE** |

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .411 | | .0496 | .0496 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Antimony, Total | 10 | mg/L | .018 | | .00298 | .00298 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Arsenic, Total | 10 | mg/L | .174 | | .000496 | .000496 | 1 | 06/16/2021 | 06/17/2021 | WG176325 |
| Barium, Total | 10 | mg/L | .0376 | | .00496 | .00496 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Beryllium, Total | 10 | mg/L | <.000992 | U | .000992 | .000992 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Cadmium, Total | 10 | mg/L | <.000496 | U | .000496 | .000496 | 0.5 | 06/16/2021 | 06/17/2021 | WG176325 |
| Calcium, Total | 10 | mg/L | 62.9 | | .496 | .496 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Chromium, Total | 10 | mg/L | .109 | | .00198 | .00198 | 2.75 | 06/16/2021 | 06/17/2021 | WG176325 |
| Cobalt, Total | 10 | mg/L | .0277 | | .000496 | .000496 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Copper, Total | 10 | mg/L | .00519 | | .00198 | .00198 | 3 | 06/16/2021 | 06/17/2021 | WG176325 |
| Iron, Total | 10 | mg/L | 6.62 | | .0992 | .0992 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Lead, Total | 10 | mg/L | <.000992 | U | .000992 | .000992 | 2 | 06/16/2021 | 06/17/2021 | WG176325 |
| Magnesium, Total | 10 | mg/L | 63.5 | | .496 | .496 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Manganese, Total | 10 | mg/L | .336 | | .000992 | .000992 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Nickel, Total | 10 | mg/L | .114 | | .000992 | .000992 | 2.5 | 06/16/2021 | 06/17/2021 | WG176325 |
| Phosphorus, Total | 10 | mg/L | 4 | | .992 | .992 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Potassium, Total | 10 | mg/L | 357 | | .992 | .992 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Selenium, Total | 10 | mg/L | <.00496 | U | .00496 | .00496 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Silver, Total | 10 | mg/L | <.000397 | U | .000397 | .000397 | 1 | 06/16/2021 | 06/17/2021 | WG176325 |
| Sodium, Total | 10 | mg/L | 1000 | | .992 | .992 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Thallium, Total | 10 | mg/L | <.000744 | U | .000744 | .000744 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Tin, Total | 10 | mg/L | .00927 | | .00496 | .00496 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Vanadium, Total | 10 | mg/L | .0377 | | .000744 | .000744 | | 06/16/2021 | 06/17/2021 | WG176325 |
| Zinc, Total | 10 | mg/L | .167 | | .00496 | .00496 | 5 | 06/16/2021 | 06/17/2021 | WG176325 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 06/16/2021 | 06/17/2021 | WG176342 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

| | | | |
|---|---|---|---|
| Client: | King County Division of Solid Waste | Report To: | Natalya Usova |
| Date Reported: | 07/01/2021 | | 201 S Jackson St, Suite 701 |
| Report Group: | CHLS-P_062921 | | Seattle, WA 98104-3855 |

| | | | |
|---|---|---|---|
| Client Sample ID: | **LEPS210622P** | CollectDate: | **06/22/2021** |
| SDG/Lab Sample ID: | **16260 / L77158-1** | LoginDate: | **06/22/2021** |
| Project Name: | **SWD-CHLS-P Cedar Hills Leachate Permit** | Matrix: | **LEACHATE** |

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .369 | | .0498 | .0498 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Antimony, Total | 10 | mg/L | .0158 | | .00299 | .00299 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Arsenic, Total | 10 | mg/L | .157 | | .000498 | .000498 | 1 | 06/23/2021 | 06/28/2021 | WG176437 |
| Barium, Total | 10 | mg/L | .0507 | | .00498 | .00498 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Beryllium, Total | 10 | mg/L | <.000995 | U | .000995 | .000995 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Cadmium, Total | 10 | mg/L | <.000498 | U | .000498 | .000498 | 0.5 | 06/23/2021 | 06/28/2021 | WG176437 |
| Calcium, Total | 10 | mg/L | 71.8 | | .498 | .498 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Chromium, Total | 10 | mg/L | .107 | | .00199 | .00199 | 2.75 | 06/23/2021 | 06/28/2021 | WG176437 |
| Cobalt, Total | 10 | mg/L | .0244 | | .000498 | .000498 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Copper, Total | 10 | mg/L | .00349 | | .00199 | .00199 | 3 | 06/23/2021 | 06/28/2021 | WG176437 |
| Iron, Total | 10 | mg/L | 6.29 | | .0995 | .0995 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Lead, Total | 10 | mg/L | .00138 | | .000995 | .000995 | 2 | 06/23/2021 | 06/28/2021 | WG176437 |
| Magnesium, Total | 10 | mg/L | 63.4 | | .498 | .498 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Manganese, Total | 10 | mg/L | .483 | | .000995 | .000995 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Nickel, Total | 10 | mg/L | .118 | | .000995 | .000995 | 2.5 | 06/23/2021 | 06/28/2021 | WG176437 |
| Phosphorus, Total | 10 | mg/L | 3.1 | | .995 | .995 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Potassium, Total | 10 | mg/L | 340 | | .995 | .995 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Selenium, Total | 10 | mg/L | <.00498 | U | .00498 | .00498 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Silver, Total | 10 | mg/L | <.000398 | U | .000398 | .000398 | 1 | 06/23/2021 | 06/28/2021 | WG176437 |
| Sodium, Total | 10 | mg/L | 957 | | .995 | .995 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Thallium, Total | 10 | mg/L | <.000746 | U | .000746 | .000746 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Tin, Total | 10 | mg/L | .00671 | | .00498 | .00498 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Vanadium, Total | 10 | mg/L | .0351 | | .000746 | .000746 | | 06/23/2021 | 06/28/2021 | WG176437 |
| Zinc, Total | 10 | mg/L | .199 | | .00498 | .00498 | 5 | 06/23/2021 | 06/28/2021 | WG176437 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 06/23/2021 | 06/29/2021 | WG176457 |

*Target Parameter Count for SDG: 25*

# HYDROGEN SULFIDE GAS AT MANHOLE R10-52

| Instrument # | Serial # | Calibration Date/Time |
|---|---|---|
| RKI Eagle 2 | E2E656 | 03/26/21 @ 14:56 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 29152 | 30 | 05/13/21 @ 10:08 |

## H2S Readings

| Date | Daily Max | Daily Average |
|---|---|---|
| 6/1/2021 | 0.0 | 0.0 |
| 6/2/2021 | 2.5 | 0.007 |
| 6/3/2021 | 0.0 | 0.0 |
| 6/4/2021 | 0.0 | 0.0 |
| 6/5/2021 | 0.0 | 0.0 |
| 6/6/2021 | 4.0 | 0.04 |
| 6/7/2021 | 3.5 | 0.01 |
| 6/8/2021 | 2.5 | 0.03 |
| 6/9/2021 | 0.0 | 0.0 |
| 6/10/2021 | 0.0 | 0.0 |
| 6/11/2021 | 0.0 | 0.0 |

**KING COUNTY SOLID WASTE DIVISION**

LEACHATE HAULING REPORT

TANKER LOADS

MONTH: APRIL

YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
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| TOTAL | 0 | 21000.00 | 0 | 7000.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | |

**KING COUNTY SOLID WASTE DIVISION**

LEACHATE HAULING REPORT

TANKER LOADS

MONTH: MAY

YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
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| TOTAL | 0 | 0.00 | 0 | 14000.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | |

**KING COUNTY SOLID WASTE DIVISION**

LEACHATE HAULING REPORT

TANKER LOADS

MONTH: JUNE

YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
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| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42000 | 0 | 0 | 0 | 0 | 0 | 0 | |

**King County**
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

August 12, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Nina Wester, Environmental Scientist, Solid Waste Division NW

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of July 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 7/7/21, 7/13/21, 7/23/21, and 7/29/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 7/1/21-7/9/21)
- Leachate Hauling Report (for July)

All results met permit-specified limits. Please contact me if you have any questions. I can be reached at (206) 263-3224. You may also contact me by e-mail at nina.wester@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, Facilities Engineering and Science Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Jamey Barker, Supervising Engineer, SWD
Terri Barker, Environmental Scientist, SWD
Dan Swope, Engineer III, SWD
Subrina Tahsin, Engineer II, SWD
Natalya Usova, Engineer II, SWD

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** July **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | pH | Arsenic, As LIMIT 1.0 | Arsenic, As LOAD 0.27 | Cadmium, Cd LIMIT 0.5 | Cadmium, Cd LOAD 0.17 | Chromium, Cr LIMIT 2.75 | Chromium, Cr LOAD 1.20 | Copper, Cu LIMIT 3.0 | Copper, Cu LOAD 6.89 | Total Soluble Sulfides LIMIT - 0.1 | Daily Industrial Flow LIMIT 2,700,000 (GPD) | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | 127,200 | |
| 2 | | | | | | | | | | | | 133,800 | |
| 3 | | | | | | | | | | | | 113,400 | |
| 4 | | | | | | | | | | | | 112,400 | |
| 5 | | | | | | | | | | | | 109,300 | |
| 6 | | | | | | | | | | | | 0 | |
| 7 | C | 8.63 | 0.172 | 0.2338 | <0.0005 | 0.0003 | 0.0993 | 0.1350 | 0.00805 | 0.0109 | <0.1 | 163,000 | |
| 8 | | | | | | | | | | | | 112,600 | |
| 9 | | | | | | | | | | | | 108,600 | |
| 10 | | | | | | | | | | | | 111,900 | |
| 11 | | | | | | | | | | | | 101,100 | |
| 12 | | | | | | | | | | | | 104,700 | |
| 13 | C | 8.64 | 0.178 | 0.2397 | <0.0005 | 0.0003 | 0.105 | 0.1414 | 0.0076 | 0.0102 | <0.1 | 161,500 | |
| 14 | | | | | | | | | | | | 312,800 | |
| 15 | | | | | | | | | | | | 0 | |
| 16 | | | | | | | | | | | | 0 | |
| 17 | | | | | | | | | | | | 0 | |
| 18 | | | | | | | | | | | | 0 | |
| 19 | | | | | | | | | | | | 0 | |
| 20 | | | | | | | | | | | | 0 | |
| 21 | | | | | | | | | | | | 0 | |
| 22 | | | | | | | | | | | | 0 | |
| 23 | C | 8.68 | 0.19 | 0.1754 | <0.0005 | 0.0002 | 0.106 | 0.0978 | 0.00771 | 0.0071 | <0.1 | 110,659 | |
| 24 | | | | | | | | | | | | 0 | |
| 25 | | | | | | | | | | | | 0 | |
| 26 | | | | | | | | | | | | 0 | |
| 27 | | | | | | | | | | | | 0 | |
| 28 | | | | | | | | | | | | 88,419 | |
| 29 | C | 8.69 | 0.199 | 0.1853 | <0.0005 | 0.0002 | 0.122 | 0.1136 | 0.0099 | 0.0092 | <0.1 | 111,670 | |
| 30 | | | | | | | | | | | | 0 | |
| 31 | | | | | | | | | | | | 0 | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by: [signature] 8/12/2021

A70EECAE02E44A0

Signature of Principal Executive or Authorized Agent Date

| | | | | |
|---|---|---|---|---|
| Monthly Min pH | 8.63 | 7/7/2021 | Total Monthly Flow (gallons) | 2,083,120 |
| Monthly Max pH | 8.69 | 7/29/2021 | Maximum Daily Flow | 312,800 |

7/14/2021

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: 4B1D8456-2B8B-41C9-8B5B-CA646F5B9FA7

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

*Please Specify Month & Year:* Month: July 2021 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | C | 0.00167 | 0.00227 | <0.0001 | 0.00007 | 0.114 | 0.155 | <0.0004 | 0.0003 | 0.229 | 0.311 | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | C | 0.00174 | 0.00234 | <0.0001 | 0.00007 | 0.114 | 0.154 | <0.0004 | 0.0003 | 0.166 | 0.224 | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | C | 0.00157 | 0.00145 | <0.0001 | 0.00005 | 0.126 | 0.116 | <0.0004 | 0.0002 | 0.137 | 0.126 | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | C | 0.00223 | 0.00208 | <0.0001 | 0.00005 | 0.127 | 0.118 | <0.0004 | 0.0002 | 0.151 | 0.141 | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by: 8/12/2021

Signature of Principal Executive or Authorized Agent Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: 4B1D8456-2B8B-41C9-8B5B-CA646F5B9FA7

King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

*Please Specify Month & Year:* **Month:** July **2021**

This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) |
|---|---|---|---|
| 1 | 0.0 | 0.00 | Y |
| 2 | 4.5 | 0.05 | N |
| 3 | 7.0 | 0.13 | N |
| 4 | 9.5 | 0.07 | N |
| 5 | 7.5 | 0.07 | N |
| 6 | 0.0 | 0.00 | Y |
| 7 | 17.0 | 0.15 | N |
| 8 | 11.5 | 0.12 | N |
| 9 | 3.0 | 0.04 | N |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
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| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| Monthly **MAX** | 17.0 | 7/1/21-7/9/21 | |
| Monthly **AVG** | 0.07 | | |

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

## Notes

| *Parameter* | H2S - Air | | |
|---|---|---|---|
| *Monitoring Period* | July 1 - July 9, 2021 | | |
| *Limit Type* | 15-min average | 8-hr average | 7- day average |
| *Limit* | 15.0 ppm | 10.0 ppm | 3.0 ppm |
| | | | |
| *Max Value* | 9.47 ppm | 0.46 ppm | n/a |
| *Value* | n/a | n/a | 0.078 ppm |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Jennifer Yuen
A70FECD0B2F44A...
Signature of Principal Executive or Authorized Agent

8/12/2021
Date

**Due Date:** Monthly report is due by the 15th each month.

DocuSign Envelope ID: 4B1D8456-2B8B-41C9-8B5B-CA646F5B9FA7

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 07/14/2021
Report Group: CHLS-P_071421

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210707P**
SDG/Lab Sample ID: **16221 / L77244-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **07/07/2021**
LoginDate: **07/07/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .454 | | .0495 | .0495 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Antimony, Total | 10 | mg/L | .016 | | .00297 | .00297 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Arsenic, Total | 10 | mg/L | .172 | | .000495 | .000495 | 1 | 07/08/2021 | 07/09/2021 | WG176651 |
| Barium, Total | 10 | mg/L | .0557 | | .00495 | .00495 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Beryllium, Total | 10 | mg/L | <.000989 | U | .000989 | .000989 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Cadmium, Total | 10 | mg/L | <.000495 | U | .000495 | .000495 | 0.5 | 07/08/2021 | 07/09/2021 | WG176651 |
| Calcium, Total | 10 | mg/L | 67.6 | | .495 | .495 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Chromium, Total | 10 | mg/L | .0993 | | .00198 | .00198 | 2.75 | 07/08/2021 | 07/09/2021 | WG176651 |
| Cobalt, Total | 10 | mg/L | .0256 | | .000495 | .000495 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Copper, Total | 10 | mg/L | .00805 | | .00198 | .00198 | 3 | 07/08/2021 | 07/09/2021 | WG176651 |
| Iron, Total | 10 | mg/L | 6.49 | | .0989 | .0989 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Lead, Total | 10 | mg/L | .00167 | | .000989 | .000989 | 2 | 07/08/2021 | 07/09/2021 | WG176651 |
| Magnesium, Total | 10 | mg/L | 63.1 | | .495 | .495 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Manganese, Total | 10 | mg/L | .461 | | .000989 | .000989 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Nickel, Total | 10 | mg/L | .114 | | .000989 | .000989 | 2.5 | 07/08/2021 | 07/09/2021 | WG176651 |
| Phosphorus, Total | 10 | mg/L | 3.25 | | .989 | .989 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Potassium, Total | 10 | mg/L | 349 | | .989 | .989 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Selenium, Total | 10 | mg/L | <.00495 | U | .00495 | .00495 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Silver, Total | 10 | mg/L | <.000396 | U | .000396 | .000396 | 1 | 07/08/2021 | 07/09/2021 | WG176651 |
| Sodium, Total | 10 | mg/L | 1010 | | .989 | .989 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Thallium, Total | 10 | mg/L | <.000742 | U | .000742 | .000742 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Tin, Total | 10 | mg/L | .00867 | | .00495 | .00495 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Vanadium, Total | 10 | mg/L | .0375 | | .000742 | .000742 | | 07/08/2021 | 07/09/2021 | WG176651 |
| Zinc, Total | 10 | mg/L | .229 | | .00495 | .00495 | 5 | 07/08/2021 | 07/09/2021 | WG176651 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 07/08/2021 | 07/09/2021 | WG176667 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 07/22/2021
Report Group: CHLS-P_072021

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210713P**
SDG/Lab Sample ID: **16305 / L77306-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **07/13/2021**
LoginDate: **07/13/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .371 | | .0498 | .0498 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Antimony, Total | 10 | mg/L | .0173 | | .00299 | .00299 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Arsenic, Total | 10 | mg/L | .178 | | .000498 | .000498 | 1 | 07/14/2021 | 07/15/2021 | WG176769 |
| Barium, Total | 10 | mg/L | .0526 | | .00498 | .00498 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Beryllium, Total | 10 | mg/L | <.000996 | U | .000996 | .000996 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Cadmium, Total | 10 | mg/L | <.000498 | U | .000498 | .000498 | 0.5 | 07/14/2021 | 07/15/2021 | WG176769 |
| Calcium, Total | 10 | mg/L | 59.9 | | .498 | .498 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Chromium, Total | 10 | mg/L | .105 | | .00199 | .00199 | 2.75 | 07/14/2021 | 07/15/2021 | WG176769 |
| Cobalt, Total | 10 | mg/L | .0249 | | .000498 | .000498 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Copper, Total | 10 | mg/L | .0076 | | .00199 | .00199 | 3 | 07/14/2021 | 07/15/2021 | WG176769 |
| Iron, Total | 10 | mg/L | 6.34 | | .0996 | .0996 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Lead, Total | 10 | mg/L | .00174 | | .000996 | .000996 | 2 | 07/14/2021 | 07/15/2021 | WG176769 |
| Magnesium, Total | 10 | mg/L | 63.2 | | .498 | .498 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Manganese, Total | 10 | mg/L | .404 | | .000996 | .000996 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Nickel, Total | 10 | mg/L | .114 | | .000996 | .000996 | 2.5 | 07/14/2021 | 07/15/2021 | WG176769 |
| Phosphorus, Total | 10 | mg/L | 2.18 | | .996 | .996 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Potassium, Total | 10 | mg/L | 365 | | .996 | .996 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Selenium, Total | 10 | mg/L | <.00498 | U | .00498 | .00498 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Silver, Total | 10 | mg/L | <.000399 | U | .000399 | .000399 | 1 | 07/14/2021 | 07/15/2021 | WG176769 |
| Sodium, Total | 10 | mg/L | 991 | | .996 | .996 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Thallium, Total | 10 | mg/L | <.000747 | U | .000747 | .000747 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Tin, Total | 10 | mg/L | .00949 | | .00498 | .00498 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Vanadium, Total | 10 | mg/L | .0383 | | .000747 | .000747 | | 07/14/2021 | 07/15/2021 | WG176769 |
| Zinc, Total | 10 | mg/L | .166 | | .00498 | .00498 | 5 | 07/14/2021 | 07/15/2021 | WG176769 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 07/19/2021 | 07/20/2021 | WG176878 |

*Target Parameter Count for SDG:* 25

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 08/05/2021
Report Group: CHLS-P_073021

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210723P**
SDG/Lab Sample ID: **16310 / L77331-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **07/23/2021**
LoginDate: **07/23/2021**
Matrix: **LEACHATE**

**Metals**

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg\L | .355 | | .0494 | .0494 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Antimony, Total | 10 | mg\L | .0173 | | .00296 | .00296 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Arsenic, Total | 10 | mg\L | .19 | | .000494 | .000494 | 1 | 07/26/2021 | 07/27/2021 | WG176991 |
| Barium, Total | 10 | mg\L | .0434 | | .00494 | .00494 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Beryllium, Total | 10 | mg\L | <.000987 | U | .000987 | .000987 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Cadmium, Total | 10 | mg\L | <.000494 | U | .000494 | .000494 | 0.5 | 07/26/2021 | 07/27/2021 | WG176991 |
| Calcium, Total | 10 | mg\L | 47.5 | | .494 | .494 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Chromium, Total | 10 | mg\L | .106 | | .00197 | .00197 | 2.75 | 07/26/2021 | 07/27/2021 | WG176991 |
| Cobalt, Total | 10 | mg\L | .0252 | | .000494 | .000494 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Copper, Total | 10 | mg\L | .00771 | | .00197 | .00197 | 3 | 07/26/2021 | 07/27/2021 | WG176991 |
| Iron, Total | 10 | mg\L | 5.83 | | .0987 | .0987 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Lead, Total | 10 | mg\L | .00157 | | .000987 | .000987 | 2 | 07/26/2021 | 07/27/2021 | WG176991 |
| Magnesium, Total | 10 | mg\L | 63.8 | | .494 | .494 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Manganese, Total | 10 | mg\L | .249 | | .000987 | .000987 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Nickel, Total | 10 | mg\L | .126 | D | .000987 | .000987 | 2.5 | 07/26/2021 | 07/27/2021 | WG176991 |
| Phosphorus, Total | 10 | mg\L | 2.86 | | .987 | .987 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Potassium, Total | 10 | mg\L | 380 | | .987 | .987 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Selenium, Total | 10 | mg\L | <.00494 | U | .00494 | .00494 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Silver, Total | 10 | mg\L | <.000395 | U | .000395 | .000395 | 1 | 07/26/2021 | 07/27/2021 | WG176991 |
| Sodium, Total | 10 | mg\L | 1060 | | .987 | .987 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Thallium, Total | 10 | mg\L | <.00074 | U | .00074 | .00074 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Tin, Total | 10 | mg\L | .0085 | | .00494 | .00494 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Vanadium, Total | 10 | mg\L | .0405 | | .00074 | .00074 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Zinc, Total | 10 | mg\L | .137 | | .00494 | .00494 | 5 | 07/26/2021 | 07/27/2021 | WG176991 |
| Mercury, Total | 2 | mg\L | <.0001 | U | .0001 | .0001 | | 07/26/2021 | 07/27/2021 | WG177001 |

Client Sample ID: **LEPS210723F**
SDG/Lab Sample ID: **16310 / L77331-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **07/23/2021**
LoginDate: **07/23/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 1 | mg/L | <.005 | U | .005 | .005 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Antimony, Total | 1 | mg/L | <.0003 | U | .0003 | .0003 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Arsenic, Total | 1 | mg/L | <.00005 | U | .00005 | .00005 | 1 | 07/26/2021 | 07/27/2021 | WG176991 |
| Barium, Total | 1 | mg/L | <.0005 | U | .0005 | .0005 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Beryllium, Total | 1 | mg/L | <.0001 | U | .0001 | .0001 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Cadmium, Total | 1 | mg/L | <.00005 | U | .00005 | .00005 | 0.5 | 07/26/2021 | 07/27/2021 | WG176991 |
| Calcium, Total | 1 | mg/L | <.05 | U | .05 | .05 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Chromium, Total | 1 | mg/L | .000232 | | .0002 | .0002 | 2.75 | 07/26/2021 | 07/27/2021 | WG176991 |
| Cobalt, Total | 1 | mg/L | <.00005 | U | .00005 | .00005 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Copper, Total | 1 | mg/L | <.0002 | U | .0002 | .0002 | 3 | 07/26/2021 | 07/27/2021 | WG176991 |
| Iron, Total | 1 | mg/L | <.01 | U | .01 | .01 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Lead, Total | 1 | mg/L | <.0001 | U | .0001 | .0001 | 2 | 07/26/2021 | 07/27/2021 | WG176991 |
| Magnesium, Total | 1 | mg/L | <.05 | U | .05 | .05 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Manganese, Total | 1 | mg/L | <.0001 | U | .0001 | .0001 | | 07/26/2021 | 07/27/2021 | WG176991 |



| | | | |
|---|---|---|---|
| Client Sample ID: | LEPS210723F | CollectDate: | 07/23/2021 |
| SDG/Lab Sample ID: | 16310 / L77331-2 | LoginDate: | 07/23/2021 |
| Project Name: | SWD-CHLS-P Cedar Hills Leachate Permit | Matrix: | LEACHATE |

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | 1 | mg/L | <.0001 | DU | .0001 | .0001 | 2.5 | 07/26/2021 | 07/27/2021 | WG176991 |
| Phosphorus, Total | 1 | mg/L | <.1 | U | .1 | .1 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Potassium, Total | 1 | mg/L | <.1 | U | .1 | .1 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Selenium, Total | 1 | mg/L | <.0005 | U | .0005 | .0005 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Silver, Total | 1 | mg/L | <.00004 | U | .00004 | .00004 | 1 | 07/26/2021 | 07/27/2021 | WG176991 |
| Sodium, Total | 1 | mg/L | <.1 | U | .1 | .1 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Thallium, Total | 1 | mg/L | <.000075 | U | .000075 | .000075 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Tin, Total | 1 | mg/L | <.0005 | U | .0005 | .0005 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Vanadium, Total | 1 | mg/L | <.000075 | U | .000075 | .000075 | | 07/26/2021 | 07/27/2021 | WG176991 |
| Zinc, Total | 1 | mg/L | <.0005 | U | .0005 | .0005 | 5 | 07/26/2021 | 07/27/2021 | WG176991 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 07/26/2021 | 07/27/2021 | WG177001 |

*Target Parameter Count for SDG:* 50

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 08/05/2021
Report Group: CHLS-P_080521

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210729P**
SDG/Lab Sample ID: **16333 / L77334-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **07/29/2021**
LoginDate: **07/29/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .536 | | .0499 | .0499 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Antimony, Total | 10 | mg/L | .0192 | | .00299 | .00299 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Arsenic, Total | 10 | mg/L | .199 | | .000499 | .000499 | 1 | 07/30/2021 | 08/02/2021 | WG177099 |
| Barium, Total | 10 | mg/L | .0493 | | .00499 | .00499 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Beryllium, Total | 10 | mg/L | <.000997 | U | .000997 | .000997 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Cadmium, Total | 10 | mg/L | <.000499 | U | .000499 | .000499 | 0.5 | 07/30/2021 | 08/02/2021 | WG177099 |
| Calcium, Total | 10 | mg/L | 45.9 | | .499 | .499 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Chromium, Total | 10 | mg/L | .122 | | .00199 | .00199 | 2.75 | 07/30/2021 | 08/02/2021 | WG177099 |
| Cobalt, Total | 10 | mg/L | .0266 | | .000499 | .000499 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Copper, Total | 10 | mg/L | .0099 | | .00199 | .00199 | 3 | 07/30/2021 | 08/02/2021 | WG177099 |
| Iron, Total | 10 | mg/L | 6.02 | | .0997 | .0997 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Lead, Total | 10 | mg/L | .00223 | | .000997 | .000997 | 2 | 07/30/2021 | 08/02/2021 | WG177099 |
| Magnesium, Total | 10 | mg/L | 63.1 | | .499 | .499 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Manganese, Total | 10 | mg/L | .248 | | .000997 | .000997 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Nickel, Total | 10 | mg/L | .127 | | .000997 | .000997 | 2.5 | 07/30/2021 | 08/02/2021 | WG177099 |
| Phosphorus, Total | 10 | mg/L | 2.53 | | .997 | .997 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Potassium, Total | 10 | mg/L | 375 | | .997 | .997 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Selenium, Total | 10 | mg/L | <.00499 | U | .00499 | .00499 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Silver, Total | 10 | mg/L | <.000399 | U | .000399 | .000399 | 1 | 07/30/2021 | 08/02/2021 | WG177099 |
| Sodium, Total | 10 | mg/L | 1060 | | .997 | .997 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Thallium, Total | 10 | mg/L | <.000748 | U | .000748 | .000748 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Tin, Total | 10 | mg/L | .00944 | | .00499 | .00499 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Vanadium, Total | 10 | mg/L | .0416 | | .000748 | .000748 | | 07/30/2021 | 08/02/2021 | WG177099 |
| Zinc, Total | 10 | mg/L | .151 | | .00499 | .00499 | 5 | 07/30/2021 | 08/02/2021 | WG177099 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 08/02/2021 | 08/03/2021 | WG177117 |

*Target Parameter Count for SDG:* 25

# HYDROGEN SULFIDE GAS AT MANHOLE R10-52

| Instrument # | Serial # | Calibration Date/Time |
|---|---|---|
| RKI Eagle 2 | E2E656 | 07/01/2021 @ 14:29 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 22849 | 30 | 07/01/2021 @ 14:21 |

## H2S Readings

| Date | Daily Max | Daily Average |
|---|---|---|
| 7/1/2021 | 0.0 | 0.00 |
| 7/2/2021 | 4.5 | 0.05 |
| 7/3/2021 | 7.0 | 0.13 |
| 7/4/2021 | 9.5 | 0.07 |
| 7/5/2021 | 7.5 | 0.07 |
| 7/6/2021 | 0.0 | 0.00 |
| 7/7/2021 | 17.0 | 0.15 |
| 7/8/2021 | 11.5 | 0.12 |
| 7/9/2021 | 3.0 | 0.04 |

**KING COUNTY SOLID WASTE DIVISION**
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: JULY
YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | | | | | | | | | | | | | | |
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| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | 6 | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| TOTAL | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 42000.00 | 0 | 0.00 | |

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King County
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

September 15, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division DS CC

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of August 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 8/4/21, 8/10/21, and 8/31/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 8/3/21-8/11/21)
- Leachate Hauling Report (for August)

All results met permit-specified limits. Please contact me if you have any questions. I can be reached at (206) 263-1020. You may also contact me by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, Facilities Engineering and Science Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Jamey Barker, Supervising Engineer, SWD
Terri Barker, Environmental Scientist, SWD
Dan Swope, Engineer III, SWD
Subrina Tahsin, Engineer II, SWD
Natalya Usova, Engineer II, SWD
Nina Wester, Environmental Scientist, SWD

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** August **2021**____ **This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | pH | Arsenic, As | | Cadmium, Cd | | Chromium, Cr | | Copper, Cu | | Total Soluble Sulfides | Daily Industrial Flow | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LIMIT 1.0 | LOAD 0.27 | LIMIT 0.5 | LOAD 0.17 | LIMIT 2.75 | LOAD 1.20 | LIMIT 3.0 | LOAD 6.89 | LIMIT - 0.1 | LIMIT 2,700,000 (GPD) | |
| 1 | | | | | | | | | | | | 0 | |
| 2 | | | | | | | | | | | | 0 | |
| 3 | | | | | | | | | | | | 0 | |
| 4 | C | 8.47 | .205 | .193 | <.0005 | .0002 | .113 | .106 | .0108 | .0101 | < 0.1 | 112,600 | |
| 5 | | | | | | | | | | | | 0 | |
| 6 | | | | | | | | | | | | 790,800 | |
| 7 | | | | | | | | | | | | 0 | |
| 8 | | | | | | | | | | | | 0 | |
| 9 | | | | | | | | | | | | 0 | |
| 10 | C | 8.15 | .219 | .2037 | <.0005 | .0002 | .13 | .121 | .0107 | .01 | < 0.1 | 111,500 | |
| 11 | | | | | | | | | | | | 400 | |
| 12 | | | | | | | | | | | | 1,006.800 | |
| 13 | | | | | | | | | | | | 514,100 | |
| 14 | | | | | | | | | | | | 0 | |
| 15 | | | | | | | | | | | | 0 | |
| 16 | | | | | | | | | | | | 0 | |
| 17 | NA | -- | | | | | | | | | | 0 | |
| 18 | | | | | | | | | | | | 0 | |
| 19 | | | | | | | | | | | | 0 | |
| 20 | | | | | | | | | | | | 0 | |
| 21 | | | | | | | | | | | | 0 | |
| 22 | | | | | | | | | | | | 0 | |
| 23 | | | | | | | | | | | | 0 | |
| 24 | NA | -- | | | | | | | | | | 0 | |
| 25 | | | | | | | | | | | | 0 | |
| 26 | | | | | | | | | | | | 0 | |
| 27 | | | | | | | | | | | | 0 | |
| 28 | | | | | | | | | | | | 0 | |
| 29 | | | | | | | | | | | | 813,600 | |
| 30 | | | | | | | | | | | | 810,200 | |
| 31 | C | 8.66 | .265 | 1.748 | <.0005 | .0016 | .13 | .858 | .0118 | .0778 | < 0.1 | 791,000 | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Sep 15, 2021
Date

DocuSigned by:
Signature of Principal Executive or Authorized Agent
A70EEC0AE02F44A...

| | | | |
|---|---|---|---|
| Monthly Min pH | 8.15 | 8/10/21 | |
| Monthly Max pH | 8.66 | 8/31/21 | |

Total Monthly Flow (gallons): 4,951,000
Maximum Daily Flow: 1,006,800

8-12-21

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

DocuSign Envelope ID: 679507F4-905A-4307-B64F-7506DE27482D

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** August **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | C | .00205 | .0019 | <.0001 | .00005 | .127 | .119 | <.0004 | .0002 | .161 | .151 | |
| 5 | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | C | .0026 | .0017 | <.0005 | .0002 | .136 | .127 | <.0005 | .0002 | .147 | .137 | |
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| 30 | | | | | | | | | | | | |
| 31 | C | .00383 | .0253 | <.0001 | .0003 | .142 | .937 | <.0004 | .0013 | .246 | 1.623 | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Sep 15, 2021
Signature of Principal Executive or Authorized Agent — Date
A70EEC00AE02F44A...

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

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King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** August **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

**All units are PPM unless otherwise noted.**

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | 0.5 | 0.001258389 | N |
| 4 | 1 | 0.001909722 | N |
| 5 | 0 | 0 | N |
| 6 | 1.5 | 0.005381944 | Y |
| 7 | 2 | 0.018055556 | N |
| 8 | 0 | 0 | N |
| 9 | 0 | 0 | N |
| 10 | 0 | 0 | N |
| 11 | 0 | 0 | N |
| 12 | | | |
| 13 | | | |
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| 31 | | | |
| Monthly **MAX** | 2 | 8/7/21 | |
| Monthly **AVG** | 0.0 | | |

## Notes

| *Parameter* | H2S – Air | | |
|---|---|---|---|
| *Monitoring Period* | Aug 3 – Aug 11, 2021 | | |
| *Limit Type* | *15-min average* | *8-hr average* | *7-day average* |
| *Limit* | *15.0 ppm* | *10.0 ppm* | *3.0 ppm* |
| | | | |
| *Max Value* | 1.44 ppm | 0.05 ppm | N/A |
| *Value* | N/A | N/A | 0.003 ppm |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Signature of Principal Executive or Authorized Agent
A70EEC0AE02F44A...

Sep 15, 2021
Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

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DocuSign Envelope ID: 679507F4-905A-4307-B64F-7506DE27482D

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 08/13/2021
Report Group: CHLS-P_081121

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210804P**
SDG/Lab Sample ID: **16336 / L77420-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **08/04/2021**
LoginDate: **08/04/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .326 | | .05 | .05 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Antimony, Total | 10 | mg/L | .0203 | | .003 | .003 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Arsenic, Total | 10 | mg/L | .205 | | .0005 | .0005 | 1 | 08/05/2021 | 08/09/2021 | WG177167 |
| Barium, Total | 10 | mg/L | .0539 | | .005 | .005 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Cadmium, Total | 10 | mg/L | <.0005 | U | .0005 | .0005 | 0.5 | 08/05/2021 | 08/09/2021 | WG177167 |
| Calcium, Total | 10 | mg/L | 45.5 | | .5 | .5 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Chromium, Total | 10 | mg/L | .113 | | .002 | .002 | 2.75 | 08/05/2021 | 08/09/2021 | WG177167 |
| Cobalt, Total | 10 | mg/L | .0294 | | .0005 | .0005 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Copper, Total | 10 | mg/L | .0108 | | .002 | .002 | 3 | 08/05/2021 | 08/09/2021 | WG177167 |
| Iron, Total | 10 | mg/L | 6.27 | | .1 | .1 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Lead, Total | 10 | mg/L | .00205 | | .001 | .001 | 2 | 08/05/2021 | 08/09/2021 | WG177167 |
| Magnesium, Total | 10 | mg/L | 68 | | .5 | .5 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Manganese, Total | 10 | mg/L | .237 | | .001 | .001 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Nickel, Total | 10 | mg/L | .127 | | .001 | .001 | 2.5 | 08/05/2021 | 08/09/2021 | WG177167 |
| Phosphorus, Total | 10 | mg/L | 3.15 | | 1 | 1 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Potassium, Total | 10 | mg/L | 393 | | 1 | 1 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Selenium, Total | 10 | mg/L | <.005 | U | .005 | .005 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Silver, Total | 10 | mg/L | <.0004 | U | .0004 | .0004 | 1 | 08/05/2021 | 08/09/2021 | WG177167 |
| Sodium, Total | 10 | mg/L | 1170 | | 1 | 1 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Thallium, Total | 10 | mg/L | <.00075 | U | .00075 | .00075 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Tin, Total | 10 | mg/L | .0109 | | .005 | .005 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Vanadium, Total | 10 | mg/L | .0441 | | .00075 | .00075 | | 08/05/2021 | 08/09/2021 | WG177167 |
| Zinc, Total | 10 | mg/L | .161 | | .005 | .005 | 5 | 08/05/2021 | 08/09/2021 | WG177167 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 08/05/2021 | 08/06/2021 | WG177187 |

*Target Parameter Count for SDG: 25*

DocuSign Envelope ID: 679507F4-905A-4307-B64F-7506DE27482D

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 08/20/2021
Report Group: CHLS-P_081721

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210810P**
SDG/Lab Sample ID: **16369 / L77474-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **08/10/2021**
LoginDate: **08/10/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, Total | 10 | mg/L | <.0005 | U | .0005 | .0005 | | 08/11/2021 | 08/12/2021 | WG177258 |
| Aluminum, Total | 10 | mg/L | .292 | | .0498 | .0498 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Antimony, Total | 10 | mg/L | .0243 | | .00299 | .00299 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Arsenic, Total | 10 | mg/L | .219 | | .000498 | .000498 | 1 | 08/11/2021 | 08/12/2021 | WG177271 |
| Barium, Total | 10 | mg/L | .0521 | | .00498 | .00498 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Beryllium, Total | 10 | mg/L | <.000996 | U | .000996 | .000996 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Cadmium, Total | 10 | mg/L | <.000498 | U | .000498 | .000498 | 0.5 | 08/11/2021 | 08/12/2021 | WG177271 |
| Calcium, Total | 10 | mg/L | 38.4 | | .498 | .498 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Chromium, Total | 10 | mg/L | .13 | | .00199 | .00199 | 2.75 | 08/11/2021 | 08/12/2021 | WG177271 |
| Cobalt, Total | 10 | mg/L | .0318 | | .000498 | .000498 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Copper, Total | 10 | mg/L | .0107 | | .00199 | .00199 | 3 | 08/11/2021 | 08/12/2021 | WG177271 |
| Iron, Total | 10 | mg/L | 5.6 | | .0996 | .0996 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Lead, Total | 10 | mg/L | .0026 | | .000996 | .000996 | 2 | 08/11/2021 | 08/12/2021 | WG177271 |
| Magnesium, Total | 10 | mg/L | 67.9 | | .498 | .498 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Manganese, Total | 10 | mg/L | .168 | | .000996 | .000996 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Nickel, Total | 10 | mg/L | .136 | | .000996 | .000996 | 2.5 | 08/11/2021 | 08/12/2021 | WG177271 |
| Phosphorus, Total | 10 | mg/L | 3.51 | | .996 | .996 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Potassium, Total | 10 | mg/L | 407 | | .996 | .996 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Selenium, Total | 10 | mg/L | <.00498 | U | .00498 | .00498 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Silver, Total | 10 | mg/L | <.000398 | U | .000398 | .000398 | 1 | 08/11/2021 | 08/12/2021 | WG177271 |
| Sodium, Total | 10 | mg/L | 1200 | | .996 | .996 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Thallium, Total | 10 | mg/L | <.000747 | U | .000747 | .000747 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Tin, Total | 10 | mg/L | .0133 | | .00498 | .00498 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Vanadium, Total | 10 | mg/L | .0444 | D | .000747 | .000747 | | 08/11/2021 | 08/12/2021 | WG177271 |
| Zinc, Total | 10 | mg/L | .147 | | .00498 | .00498 | 5 | 08/11/2021 | 08/12/2021 | WG177271 |

*Target Parameter Count for SDG: 25*

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 09/10/2021
Report Group: CHLS-P_090721

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210831P**
SDG/Lab Sample ID: **16379 / L77535-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **08/31/2021**
LoginDate: **09/01/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .519 | | .0501 | .0501 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Antimony, Total | 10 | mg/L | .024 | | .00301 | .00301 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Arsenic, Total | 10 | mg/L | .265 | | .000501 | .000501 | 1 | 09/02/2021 | 09/02/2021 | WG177718 |
| Barium, Total | 10 | mg/L | .115 | | .00501 | .00501 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Cadmium, Total | 10 | mg/L | <.000501 | U | .000501 | .000501 | 0.5 | 09/02/2021 | 09/02/2021 | WG177718 |
| Calcium, Total | 10 | mg/L | 63 | | .501 | .501 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Chromium, Total | 10 | mg/L | .13 | | .002 | .002 | 2.75 | 09/02/2021 | 09/02/2021 | WG177718 |
| Cobalt, Total | 10 | mg/L | .0341 | | .000501 | .000501 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Copper, Total | 10 | mg/L | .0118 | | .002 | .002 | 3 | 09/02/2021 | 09/02/2021 | WG177718 |
| Iron, Total | 10 | mg/L | 6.63 | | .1 | .1 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Lead, Total | 10 | mg/L | .00383 | | .001 | .001 | 2 | 09/02/2021 | 09/02/2021 | WG177718 |
| Magnesium, Total | 10 | mg/L | 78 | | .501 | .501 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Manganese, Total | 10 | mg/L | .541 | | .001 | .001 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Nickel, Total | 10 | mg/L | .142 | | .001 | .001 | 2.5 | 09/02/2021 | 09/02/2021 | WG177718 |
| Phosphorus, Total | 10 | mg/L | 2.84 | | 1 | 1 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Potassium, Total | 10 | mg/L | 478 | | 1 | 1 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Selenium, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Silver, Total | 10 | mg/L | <.000401 | U | .000401 | .000401 | 1 | 09/02/2021 | 09/02/2021 | WG177718 |
| Sodium, Total | 10 | mg/L | 1330 | | 1 | 1 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Thallium, Total | 10 | mg/L | <.000752 | U | .000752 | .000752 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Tin, Total | 10 | mg/L | .0104 | | .00501 | .00501 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Vanadium, Total | 10 | mg/L | .0576 | | .000752 | .000752 | | 09/02/2021 | 09/02/2021 | WG177718 |
| Zinc, Total | 10 | mg/L | .246 | | .00501 | .00501 | 5 | 09/02/2021 | 09/02/2021 | WG177718 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 09/03/2021 | 09/07/2021 | WG177729 |

*Target Parameter Count for SDG: 25*

# HYDROGEN SULFIDE GAS AT MANHOLE R10-52

| Instrument # | Serial # | Calibration Date/Time |
|---|---|---|
| RKI Eagle 2 | E2E656 | 7/1/21 @ 14:29 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 22002 | 30 | 8/3/21 @ 07:00 |

## H2S Readings

| Date | Daily Max | Daily Average |
|---|---|---|
| 8/3/2021 | 0.5 | 0.001258389 |
| 8/4/2021 | 1 | 0.001909722 |
| 8/5/2021 | 0 | 0 |
| 8/6/2021 | 1.5 | 0.005381944 |
| 8/7/2021 | 2 | 0.018055556 |
| 8/8/2021 | 0 | 0 |
| 8/9/2021 | 0 | 0 |
| 8/10/2021 | 0 | 0 |
| 8/11/2021 | 0 | 0 |

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# KING COUNTY SOLID WASTE DIVISION

LEACHATE HAULING REPORT

TANKER LOADS

MONTH: AUGUST

YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| TOTAL | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | |

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King County
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

October 12, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Nina Wester, Environmental Scientist II, Solid Waste Division DS NW

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of September 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 9/14/21, 9/22/21, 9/28/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 9/1/21-9/9/21; 9/27/21-9/29/21)
- Leachate Hauling Report (for September)

At monitoring location A90021, one soluble sulfide screening level exceedance was measured during the month of September, on 9/22. KCIW was notified of this exceedance on 9/22. There were also two arsenic loading exceedances measured on 9/14 and 9/22. KCIW was notified of these exceedances on 9/22 and 10/4, respectively. Details of these exceedances are provided in two 14-day reports – one submitted on 9/30, and the other appended to this SMR, per KCIW guidance.

Since no discharge occurred from A90021 between 9/1-9/12, the Eagle gas meter was redeployed from 9/27-9/29 to coincide with a soluble sulfide measurement, per S.4.A.1[3].

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 263-3224, or by e-mail at nina.wester@kingcounty.gov, or Colleen Christensen at (206) 263-1020, colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, P.E., Section Manager, SWD
Jamey Barker, P.E., Engineer Supervisor, SWD

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Jennifer Keune, Environmental Compliance Coordinator, SWD
Colleen Christensen, Engineer III, SWD
Dan Swope, Engineer III, SWD
Natalya Usova, Engineer II, SWD

Printed on recycled paper

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** September **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | pH | Arsenic, As | | Cadmium, Cd | | Chromium, Cr | | Copper, Cu | | Total Soluble Sulfides | Daily Industrial Flow | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LIMIT 1.0 | LOAD 0.27 | LIMIT 0.5 | LOAD 0.17 | LIMIT 2.75 | LOAD 1.20 | LIMIT 3.0 | LOAD 6.89 | LIMIT - 0.1 | LIMIT 2,700,000 (GPD) | |
| 1 | | | | | | | | | | | | 0 | |
| 2 | | | | | | | | | | | | 0 | |
| 3 | | | | | | | | | | | | 0 | No discharge |
| 4 | | | | | | | | | | | | 0 | From 9/1/21 |
| 5 | | | | | | | | | | | | 0 | To 9/12/21; |
| 6 | | | | | | | | | | | | 0 | No samples |
| 7 | | | | | | | | | | | | 0 | taken |
| 8 | | | | | | | | | | | | 0 | |
| 9 | | | | | | | | | | | | 0 | |
| 10 | | | | | | | | | | | | 0 | |
| 11 | | | | | | | | | | | | 0 | |
| 12 | | | | | | | | | | | | 823,100 | |
| 13 | | | | | | | | | | | | 825,100 | |
| 14 | C | 8.62 | 0.351 | 0. 3085 | <0.0005 | 0.0002 | 0.173 | 0.1521 | 0.0158 | 0.0139 | <0.1 ppm | 105,400 | |
| 15 | | | | | | | | | | | | 413,200 | |
| 16 | | | | | | | | | | | | 0 | |
| 17 | | | | | | | | | | | | 0 | |
| 18 | | | | | | | | | | | | 0 | |
| 19 | | | | | | | | | | | | 0 | |
| 20 | | | | | | | | | | | | 0 | |
| 21 | | | | | | | | | | | | 854,600 | |
| 22 | C | 8.57 | 0.278 | 0.9930 | <0.0005 | 0.0009 | 0.161 | 0.5751 | 0.0177 | 0.0632 | 0.5 ppm | 428,300 | |
| 23 | | | | | | | | | | | | 0 | |
| 24 | | | | | | | | | | | | 0 | |
| 25 | | | | | | | | | | | | 0 | |
| 26 | | | | | | | | | | | | 734,200 | |
| 27 | | | | | | | | | | | | 600 | |
| 28 | C | 8.56 | 0.268 | 0.1891 | <0.0005 | 0.0002 | 0.157 | 0.1108 | 0.00753 | 0.0053 | <0.1 ppm | 84,600 | |
| 29 | | | | | | | | | | | | 914,000 | |
| 30 | | | | | | | | | | | | 380,900 | |
| 31 | | | | | | | | | | | | N/A | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Jennifer Kunz
A70F56C9AE025444...
Signature of Principal Executive or Authorized Agent

10/14/2021
Date

| | | | |
|---|---|---|---|
| Monthly Min pH | 8.56 | 9/22/21 | Total Monthly Flow (gallons) 5,564,000 |
| Monthly Max pH | 8.62 | 9/14/21 | Maximum Daily Flow 914,000 |

9/29/21

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

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King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** September **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | No discharge |
| 4 | | | | | | | | | | | | From 9/1/21 |
| 5 | | | | | | | | | | | | To 9/12/21; |
| 6 | | | | | | | | | | | | No samples taken |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | C | 0.00429 | 0.00377 | <0.0001 | 0.00004 | 0.172 | 0.151 | <0.0004 | 0.0002 | 0.398 | 0.350 | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | C | 0.00425 | 0.01518 | <0.0001 | 0.00018 | 0.184 | 0.657 | <0.0004 | 0.0007 | 0.499 | 1.782 | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | C | 0.00383 | 0.00270 | <0.0001 | 0.00004 | 0.184 | 0.130 | <0.0004 | 0.0001 | 0.438 | 0.309 | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Jennifer Yuen
A7DE5CKAEU7144
Signature of Principal Executive or Authorized Agent

10/14/2021
Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

DocuSign Envelope ID: 973D11AD-55C4-4D37-AD02-E3AC62F810E0

King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** September **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

**All units are PPM unless otherwise noted.**

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) |
|---|---|---|---|
| 1 | 2.5 | 0.023 | N |
| 2 | 0 | 0 | N |
| 3 | 1 | 0.008 | N |
| 4 | 4.5 | 0.217 | N |
| 5 | 3.5 | 0.318 | N |
| 6 | 3.5 | 0.066 | N |
| 7 | 1 | 0.003 | N |
| 8 | 0 | 0 | N |
| 9 | 0 | 0 | N |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
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| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | 0 | 0 | Y |
| 28 | 0 | 0 | Y |
| 29 | 0 | 0 | Y |
| 30 | | | |
| 31 | | | |
| Monthly **MAX** | 4.5 | | 9/4/21 |
| Monthly **AVG** | 0.053 | | |

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

## Notes

| *Parameter* | H2S – Air | | |
|---|---|---|---|
| *Monitoring Period* | September 1-9, 2021 | | |
| *Limit Type* | *15-min average* | *8-hr average* | *7-day average* |
| *Limit* | *15.0 ppm* | *10.0 ppm* | *3.0 ppm* |
| | | | |
| *Max Value* | 3.68 | 0.82 | N/A |
| *Value* | N/A | N/A | 0.077 |

Per S.4.A.1, the Eagle gas meter was redeployed from 9/27-9/29 to coincide with a soluble sulfide sampling event. Since there was no discharge from 9/1-9/12, the first monitoring period (9/1-9/9) did not coincide with a soluble sulfide sampling event.

| *Parameter* | H2S – Air | | |
|---|---|---|---|
| *Monitoring Period* | September 27-29, 2021 | | |
| *Limit Type* | *15-min average* | *8-hr average* | *7-day average* |
| *Limit* | *15.0 ppm* | *10.0 ppm* | *3.0 ppm* |
| | | | |
| *Max Value* | 0 | 0 | N/A |
| *Value* | N/A | N/A | 0 |

Per KCIW guidance, the following values are reported for administrative purposes, only:

- H2S – Air MAX
- H2S – Air Average
- Monthly MAX
- Monthly Average

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
A70EF0D0E7E7A...
Signature of Principal Executive or Authorized Agent

10/14/2021
Date

**Due Date:** **Monthly report is due by the 15th each month.**

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DocuSign Envelope ID: 973D11AD-55C4-4D37-AD02-E3AC62F810E0

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 09/22/2021
Report Group: CHLS-P_092121

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210914P** CollectDate: **09/14/2021**
SDG/Lab Sample ID: **16432 / L77545-1** LoginDate: **09/14/2021**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .992 | | .0513 | .0513 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Antimony, Total | 10 | mg/L | .0419 | | .00308 | .00308 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Arsenic, Total | 10 | mg/L | .351 | | .000513 | .000513 | 1 | 09/16/2021 | 09/17/2021 | WG177925 |
| Barium, Total | 10 | mg/L | .143 | | .00513 | .00513 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Beryllium, Total | 10 | mg/L | <.00103 | U | .00103 | .00103 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Cadmium, Total | 10 | mg/L | <.000513 | U | .000513 | .000513 | 0.5 | 09/16/2021 | 09/17/2021 | WG177925 |
| Calcium, Total | 10 | mg/L | 64 | | .513 | .513 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Chromium, Total | 10 | mg/L | .173 | | .00205 | .00205 | 2.75 | 09/16/2021 | 09/17/2021 | WG177925 |
| Cobalt, Total | 10 | mg/L | .0416 | | .000513 | .000513 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Copper, Total | 10 | mg/L | .0158 | | .00205 | .00205 | 3 | 09/16/2021 | 09/17/2021 | WG177925 |
| Iron, Total | 10 | mg/L | 8.3 | | .103 | .103 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Lead, Total | 10 | mg/L | .00429 | | .00103 | .00103 | 2 | 09/16/2021 | 09/17/2021 | WG177925 |
| Magnesium, Total | 10 | mg/L | 97.8 | | .513 | .513 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Manganese, Total | 10 | mg/L | .459 | | .00103 | .00103 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Nickel, Total | 10 | mg/L | .172 | | .00103 | .00103 | 2.5 | 09/16/2021 | 09/17/2021 | WG177925 |
| Phosphorus, Total | 10 | mg/L | 6.57 | | 1.03 | 1.03 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Potassium, Total | 10 | mg/L | 542 | | 1.03 | 1.03 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Selenium, Total | 10 | mg/L | <.00513 | U | .00513 | .00513 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Silver, Total | 10 | mg/L | <.00041 | U | .00041 | .00041 | 1 | 09/16/2021 | 09/17/2021 | WG177925 |
| Sodium, Total | 10 | mg/L | 1540 | | 1.03 | 1.03 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Thallium, Total | 10 | mg/L | <.000769 | U | .000769 | .000769 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Tin, Total | 10 | mg/L | .0127 | | .00513 | .00513 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Vanadium, Total | 10 | mg/L | .0796 | | .000769 | .000769 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Zinc, Total | 10 | mg/L | .398 | | .00513 | .00513 | 5 | 09/16/2021 | 09/17/2021 | WG177925 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 09/17/2021 | 09/20/2021 | WG177965 |

Client Sample ID: **LEPS210914D** CollectDate: **09/14/2021**
SDG/Lab Sample ID: **16432 / L77545-2** LoginDate: **09/14/2021**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .883 | | .0488 | .0488 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Antimony, Total | 10 | mg/L | .0344 | | .00293 | .00293 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Arsenic, Total | 10 | mg/L | .337 | | .000488 | .000488 | 1 | 09/16/2021 | 09/17/2021 | WG177925 |
| Barium, Total | 10 | mg/L | .152 | | .00488 | .00488 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Beryllium, Total | 10 | mg/L | <.000976 | U | .000976 | .000976 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Cadmium, Total | 10 | mg/L | <.000488 | U | .000488 | .000488 | 0.5 | 09/16/2021 | 09/17/2021 | WG177925 |
| Calcium, Total | 10 | mg/L | 70.4 | | .488 | .488 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Chromium, Total | 10 | mg/L | .157 | | .00195 | .00195 | 2.75 | 09/16/2021 | 09/17/2021 | WG177925 |
| Cobalt, Total | 10 | mg/L | .0375 | | .000488 | .000488 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Copper, Total | 10 | mg/L | .0122 | | .00195 | .00195 | 3 | 09/16/2021 | 09/17/2021 | WG177925 |
| Iron, Total | 10 | mg/L | 8.25 | | .0976 | .0976 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Lead, Total | 10 | mg/L | .00433 | | .000976 | .000976 | 2 | 09/16/2021 | 09/17/2021 | WG177925 |
| Magnesium, Total | 10 | mg/L | 99.6 | | .488 | .488 | | 09/16/2021 | 09/17/2021 | WG177925 |
| Manganese, Total | 10 | mg/L | .557 | | .000976 | .000976 | | 09/16/2021 | 09/17/2021 | WG177925 |

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 10/04/2021
Report Group: CHLS-P_092921

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210922P**
SDG/Lab Sample ID: **16412 / L77698-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **09/22/2021**
LoginDate: **09/22/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .985 | | .0486 | .0486 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Antimony, Total | 10 | mg/L | .0305 | | .00292 | .00292 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Arsenic, Total | 10 | mg/L | .278 | | .000486 | .000486 | 1 | 09/23/2021 | 09/24/2021 | WG178068 |
| Barium, Total | 10 | mg/L | .159 | | .00486 | .00486 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Beryllium, Total | 10 | mg/L | <.000972 | U | .000972 | .000972 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Cadmium, Total | 10 | mg/L | <.000486 | U | .000486 | .000486 | 0.5 | 09/23/2021 | 09/24/2021 | WG178068 |
| Calcium, Total | 10 | mg/L | 81.6 | | .486 | .486 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Chromium, Total | 10 | mg/L | .161 | | .00194 | .00194 | 2.75 | 09/23/2021 | 09/24/2021 | WG178068 |
| Cobalt, Total | 10 | mg/L | .0373 | | .000486 | .000486 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Copper, Total | 10 | mg/L | .0177 | | .00194 | .00194 | 3 | 09/23/2021 | 09/24/2021 | WG178068 |
| Iron, Total | 10 | mg/L | 9.29 | D | .0972 | .0972 | | 09/23/2021 | 09/29/2021 | WG178068 |
| Lead, Total | 10 | mg/L | .00425 | | .000972 | .000972 | 2 | 09/23/2021 | 09/24/2021 | WG178068 |
| Magnesium, Total | 10 | mg/L | 103 | | .486 | .486 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Manganese, Total | 10 | mg/L | .673 | | .000972 | .000972 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Nickel, Total | 10 | mg/L | .184 | D | .000972 | .000972 | 2.5 | 09/23/2021 | 09/29/2021 | WG178068 |
| Phosphorus, Total | 10 | mg/L | 5.15 | | .972 | .972 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Potassium, Total | 10 | mg/L | 546 | | .972 | .972 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Selenium, Total | 10 | mg/L | <.00486 | U | .00486 | .00486 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Silver, Total | 10 | mg/L | <.000389 | U | .000389 | .000389 | 1 | 09/23/2021 | 09/24/2021 | WG178068 |
| Sodium, Total | 10 | mg/L | 1540 | | .972 | .972 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Thallium, Total | 10 | mg/L | <.000729 | U | .000729 | .000729 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Tin, Total | 10 | mg/L | .0127 | | .00486 | .00486 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Vanadium, Total | 10 | mg/L | .0855 | | .000729 | .000729 | | 09/23/2021 | 09/24/2021 | WG178068 |
| Zinc, Total | 10 | mg/L | .499 | | .00486 | .00486 | 5 | 09/23/2021 | 09/24/2021 | WG178068 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 09/23/2021 | 09/24/2021 | WG178085 |

*Target Parameter Count for SDG:* 25

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 10/07/2021
Report Group: CHLS-P_100521

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS210928P**
SDG/Lab Sample ID: **16433 / L77705-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **09/28/2021**
LoginDate: **09/28/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .665 | | .0503 | .0503 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Antimony, Total | 10 | mg/L | .0273 | | .00302 | .00302 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Arsenic, Total | 10 | mg/L | .268 | | .000503 | .000503 | 1 | 09/29/2021 | 09/29/2021 | WG178139 |
| Barium, Total | 10 | mg/L | .137 | | .00503 | .00503 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Beryllium, Total | 10 | mg/L | <.00101 | U | .00101 | .00101 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Cadmium, Total | 10 | mg/L | <.000503 | U | .000503 | .000503 | 0.5 | 09/29/2021 | 09/29/2021 | WG178139 |
| Calcium, Total | 10 | mg/L | 70.1 | | .503 | .503 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Chromium, Total | 10 | mg/L | .157 | | .00201 | .00201 | 2.75 | 09/29/2021 | 09/29/2021 | WG178139 |
| Cobalt, Total | 10 | mg/L | .0356 | | .000503 | .000503 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Copper, Total | 10 | mg/L | .00753 | | .00201 | .00201 | 3 | 09/29/2021 | 09/29/2021 | WG178139 |
| Iron, Total | 10 | mg/L | 8.69 | | .101 | .101 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Lead, Total | 10 | mg/L | .00383 | | .00101 | .00101 | 2 | 09/29/2021 | 09/29/2021 | WG178139 |
| Magnesium, Total | 10 | mg/L | 100 | | .503 | .503 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Manganese, Total | 10 | mg/L | .573 | | .00101 | .00101 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Nickel, Total | 10 | mg/L | .184 | | .00101 | .00101 | 2.5 | 09/29/2021 | 09/29/2021 | WG178139 |
| Phosphorus, Total | 10 | mg/L | 3.8 | | 1.01 | 1.01 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Potassium, Total | 10 | mg/L | 547 | | 1.01 | 1.01 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Selenium, Total | 10 | mg/L | <.00503 | U | .00503 | .00503 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Silver, Total | 10 | mg/L | <.000403 | U | .000403 | .000403 | 1 | 09/29/2021 | 09/29/2021 | WG178139 |
| Sodium, Total | 10 | mg/L | 1500 | | 1.01 | 1.01 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Thallium, Total | 10 | mg/L | <.000755 | U | .000755 | .000755 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Tin, Total | 10 | mg/L | .0104 | | .00503 | .00503 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Vanadium, Total | 10 | mg/L | .0835 | | .000755 | .000755 | | 09/29/2021 | 09/29/2021 | WG178139 |
| Zinc, Total | 10 | mg/L | .438 | | .00503 | .00503 | 5 | 09/29/2021 | 09/29/2021 | WG178139 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 09/29/2021 | 09/30/2021 | WG178155 |

*Target Parameter Count for SDG:* 25

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# HYDROGEN SULFIDE GAS AT MH R10-52

| Instrument # | Serial # | Calibration Date/Time |
|---|---|---|
| RKI Eagle 2 | E2E656 | 7/1/2021 14:29:03 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 23118 | 30 | 9/1/2021 09:19:26 |

## H2S Readings

| Date | Daily Max | Daily Average |
|---|---|---|
| 9/1/2021 | 2.5 | 0.023 |
| 9/2/2021 | 0 | 0 |
| 9/3/2021 | 1 | 0.008 |
| 9/4/2021 | 4.5 | 0.217 |
| 9/5/2021 | 3.5 | 0.318 |
| 9/6/2021 | 3.5 | 0.066 |
| 9/7/2021 | 1 | 0.003 |
| 9/8/2021 | 0 | 0 |
| 9/9/2021 | 0 | 0 |

DocuSign Envelope ID: 973D11AD-55C4-4D37-AD02-E3AC62F810E0

# HYDROGEN SULFIDE GAS AT MANHOLE R10-52

| Instrument # | Serial # | Calibration Date/Time |
|---|---|---|
| RKI Eagle 2 | E2E656 | 7/1/2021 14:29:03 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 5666 | 30 | 9/23/2021 13:06:22 |

## H2S Readings

| Date | Daily Max | Daily Average |
|---|---|---|
| 9/27/2021 | 0 | 0 |
| 9/28/2021 | 0 | 0 |
| 9/29/2021 | 0 | 0 |

DocuSign Envelope ID: 973D11AD-55C4-4D37-AD02-E3AC62F810E0

# KING COUNTY SOLID WASTE DIVISION

LEACHATE HAULING REPORT

TANKER LOADS

MONTH: SEPTEMBER
YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 6000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

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**King County**
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

November 10, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Nina Wester, Environmental Scientist II, Solid Waste Division

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of October 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 10/6/21, 10/13/21, 10/21/21, and 10/26/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 10/1/21-10/11/21)
- Leachate Hauling Report (for October)

The following exceedances occurred during the month of October:

| Parameter | Date of Exceedance | Aware Date | Notification Date and Time |
|---|---|---|---|
| Atmospheric H2S | 10/3/21 | 10/12/21 | 10/12/21 @ 11:09 |
| Soluble Sulfide | 10/13/21 | 10/13/21 | 10/13/21 @ 13:58 |
| Arsenic Loading | 10/13/21 | 10/21/21 | 10/21/21 @ 14:15 |

Details of these exceedances are provided in two 14-day reports – one submitted on 10/26, and the other appended to this SMR, per KCIW guidance.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 263-3224, or by e-mail at nina.wester@kingcounty.gov, or Colleen Christensen at (206) 263-1020, colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, P.E., Section Manager, SWD

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Jamey Barker, P.E., Engineer Supervisor, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Colleen Christensen, Engineer III, SWD
Dan Swope, Engineer III, SWD
Natalya Usova, Engineer II, SWD

Printed on recycled paper

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** October **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | pH | Arsenic, As | | Cadmium, Cd | | Chromium, Cr | | Copper, Cu | | Total Soluble Sulfides | Daily Industrial Flow | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LIMIT 1.0 | LOAD 0.27 | LIMIT 0.5 | LOAD 0.17 | LIMIT 2.75 | LOAD 1.20 | LIMIT 3.0 | LOAD 6.89 | LIMIT - 0.1 | LIMIT 2,700,000 (GPD) | |
| 1 | | | | | | | | | | | | 0 | |
| 2 | | | | | | | | | | | | 0 | |
| 3 | | | | | | | | | | | | 833,700 | |
| 4 | | | | | | | | | | | | 779,100 | |
| 5 | | | | | | | | | | | | 416,800 | |
| 6 | C | 8.58 | 0.259 | 0.1789 | <0.0005 | 0.0002 | 0.154 | 0.1063 | 0.0245 | 0.0169 | 0.1 ppm | 82,800 | |
| 7 | | | | | | | | | | | | 513,200 | |
| 8 | | | | | | | | | | | | 0 | |
| 9 | | | | | | | | | | | | 0 | |
| 10 | | | | | | | | | | | | 0 | |
| 11 | | | | | | | | | | | | 0 | |
| 12 | | | | | | | | | | | | 963,700 | |
| 13 | C | 8.61 | 0.22 | 0.2805 | <0.0005 | 0.0003 | 0.123 | 0.1568 | 0.0136 | 0.0173 | 0.2 ppm | 152,900 | |
| 14 | | | | | | | | | | | | 0 | |
| 15 | | | | | | | | | | | | 0 | |
| 16 | | | | | | | | | | | | 0 | |
| 17 | | | | | | | | | | | | 0 | |
| 18 | | | | | | | | | | | | 0 | |
| 19 | | | | | | | | | | | | 0 | |
| 20 | | | | | | | | | | | | 0 | |
| 21 | C | 8.50 | 0.214 | 0.1521 | <0.0005 | 0.0002 | 0.121 | 0.0860 | 0.00874 | 0.0062 | <0.1 ppm | 85,200 | |
| 22 | | | | | | | | | | | | 820,200 | |
| 23 | | | | | | | | | | | | 824,000 | |
| 24 | | | | | | | | | | | | 797,700 | |
| 25 | | | | | | | | | | | | 615,400 | |
| 26 | C | 8.56 | 0.178 | 0.1642 | 0.0006 | 0.0006 | 0.106 | 0.0978 | 0.0117 | 0.0108 | <0.1 ppm | 110,600 | |
| 27 | | | | | | | | | | | | 983,400 | |
| 28 | | | | | | | | | | | | 2,442,100 | |
| 29 | | | | | | | | | | | | 925,200 | |
| 30 | | | | | | | | | | | | 1,401,900 | |
| 31 | | | | | | | | | | | | 1,030,800 | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by: Nov 10, 2021
A70FEC0A0C7A40...
Signature of Principal Executive or Authorized Agent — Date

| | | | |
|---|---|---|---|
| Monthly Min pH | 8.50 | 10/21/21 | Total Monthly Flow (gallons) 13,778,700 |
| Monthly Max pH | 8.61 | 10/13/21 | Maximum Daily Flow 2,442,100 |

10/28/21

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

DocuSign Envelope ID: 0AA7F61F-CBB7-4C7C-819A-FAAFE42CDA9E

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** October **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | C | 0.00348 | 0.00240 | <0.0001 | 0.00003 | 0.168 | 0.116 | <0.0004 | 0.0001 | 0.458 | 0.316 | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | C | 0.00291 | 0.00371 | <0.0001 | 0.00006 | 0.146 | 0.186 | <0.0004 | 0.0003 | 0.342 | 0.436 | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | C | 0.00241 | 0.00171 | <0.0002 | 0.00007 | 0.15 | 0.107 | <0.0004 | 0.0001 | 0.311 | 0.221 | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | C | 0.00239 | 0.00220 | <0.0001 | 0.00005 | 0.126 | 0.116 | <0.0004 | 0.0002 | 0.3 | 0.277 | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Jennifer Yuen
A7BFCAAD7E4A4...

Nov 10, 2021

Signature of Principal Executive or Authorized Agent — Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

DocuSign Envelope ID: 0AA7F61F-CBB7-4C7C-819A-FAAFE42CDA9E

King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** October **2021**____ **This form is available at www.kingcounty.gov/industrialwaste.**

**All units are PPM unless otherwise noted.**

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) |
|---|---|---|---|
| 1 | 0 | 0 | Y |
| 2 | 0 | 0 | Y |
| 3 | 58 | 0.399 | Y |
| 4 | 0 | 0 | Y |
| 5 | 0 | 0 | Y |
| 6 | 0 | 0 | Y |
| 7 | 0 | 0 | Y |
| 8 | 0 | 0 | Y |
| 9 | 0 | 0 | Y |
| 10 | 0 | 0 | Y |
| 11 | 0 | 0 | Y |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |
| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| Monthly **MAX** | 58 | | 10/3/21 |
| Monthly **AVG** | 0.04 | | |

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

## Notes

| *Parameter* | H2S – Air | | |
|---|---|---|---|
| *Monitoring Period* | October 1-11, 2021 | | |
| *Limit Type* | *15-min average* | *8-hr average* | *7-day average* |
| *Limit* | *15.0 ppm* | *10.0 ppm* | *3.0 ppm* |
| | | | |
| *Max Value* | 30.3 | 1.19 | N/A |
| *Value* | N/A | N/A | 0.066 |

Per KCIW guidance, the following values are reported for administrative purposes, only:

- H2S – Air MAX
- H2S – Air Average
- Monthly MAX
- Monthly Average

Information about the atmospheric H2S exceedance was included in a 14-day report, submitted to KCIW on 10/26/21.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:

Nov 10, 2021

Date

A70EEC0AE02F44A...

Signature of Principal Executive or Authorized Agent

**Due Date:** **Monthly report is due by the 15th each month.**

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DocuSign Envelope ID: 0AA7F61F-CBB7-4C7C-819A-FAAFE42CDA9E

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 10/14/2021
Report Group: CHLS-P_101321

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211006P**
SDG/Lab Sample ID: **16436 / L77701-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **10/06/2021**
LoginDate: **10/06/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | 1.3 | J | .05 | .05 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Antimony, Total | 10 | mg/L | .0305 | | .003 | .003 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Arsenic, Total | 10 | mg/L | .259 | | .0005 | .0005 | 1 | 10/07/2021 | 10/11/2021 | WG178295 |
| Barium, Total | 10 | mg/L | .183 | | .005 | .005 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Cadmium, Total | 10 | mg/L | <.0005 | U | .0005 | .0005 | 0.5 | 10/07/2021 | 10/11/2021 | WG178295 |
| Calcium, Total | 10 | mg/L | 99.1 | | .5 | .5 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Chromium, Total | 10 | mg/L | .154 | | .002 | .002 | 2.75 | 10/07/2021 | 10/11/2021 | WG178295 |
| Cobalt, Total | 10 | mg/L | .0368 | | .0005 | .0005 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Copper, Total | 10 | mg/L | .0245 | | .002 | .002 | 3 | 10/07/2021 | 10/11/2021 | WG178295 |
| Iron, Total | 10 | mg/L | 9.69 | | .1 | .1 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Lead, Total | 10 | mg/L | .00348 | | .001 | .001 | 2 | 10/07/2021 | 10/11/2021 | WG178295 |
| Magnesium, Total | 10 | mg/L | 91.1 | | .5 | .5 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Manganese, Total | 10 | mg/L | .98 | | .001 | .001 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Nickel, Total | 10 | mg/L | .168 | | .001 | .001 | 2.5 | 10/07/2021 | 10/11/2021 | WG178295 |
| Phosphorus, Total | 10 | mg/L | 6 | | 1 | 1 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Potassium, Total | 10 | mg/L | 476 | | 1 | 1 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Selenium, Total | 10 | mg/L | <.005 | U | .005 | .005 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Silver, Total | 10 | mg/L | <.0004 | U | .0004 | .0004 | 1 | 10/07/2021 | 10/11/2021 | WG178295 |
| Sodium, Total | 10 | mg/L | 1360 | | 1 | 1 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Thallium, Total | 10 | mg/L | <.00075 | U | .00075 | .00075 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Tin, Total | 10 | mg/L | .0121 | J | .005 | .005 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Vanadium, Total | 10 | mg/L | .0756 | | .00075 | .00075 | | 10/07/2021 | 10/11/2021 | WG178295 |
| Zinc, Total | 10 | mg/L | .458 | | .005 | .005 | 5 | 10/07/2021 | 10/11/2021 | WG178295 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 10/11/2021 | 10/13/2021 | WG178380 |

*Target Parameter Count for SDG: 25*

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 10/21/2021
Report Group: CHLS-P_102021

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211013P**
SDG/Lab Sample ID: **16420 / L77698-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **10/13/2021**
LoginDate: **10/13/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .799 | | .0501 | .0501 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Antimony, Total | 10 | mg/L | .0255 | | .00301 | .00301 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Arsenic, Total | 10 | mg/L | .22 | | .000501 | .000501 | 1 | 10/14/2021 | 10/15/2021 | WG178424 |
| Barium, Total | 10 | mg/L | .132 | | .00501 | .00501 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Cadmium, Total | 10 | mg/L | <.000501 | U | .000501 | .000501 | 0.5 | 10/14/2021 | 10/15/2021 | WG178424 |
| Calcium, Total | 10 | mg/L | 74.9 | | .501 | .501 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Chromium, Total | 10 | mg/L | .123 | | .002 | .002 | 2.75 | 10/14/2021 | 10/15/2021 | WG178424 |
| Cobalt, Total | 10 | mg/L | .031 | | .000501 | .000501 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Copper, Total | 10 | mg/L | .0136 | | .002 | .002 | 3 | 10/14/2021 | 10/15/2021 | WG178424 |
| Iron, Total | 10 | mg/L | 7.4 | | .1 | .1 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Lead, Total | 10 | mg/L | .00291 | | .001 | .001 | 2 | 10/14/2021 | 10/15/2021 | WG178424 |
| Magnesium, Total | 10 | mg/L | 81.5 | | .501 | .501 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Manganese, Total | 10 | mg/L | .581 | | .001 | .001 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Nickel, Total | 10 | mg/L | .146 | | .001 | .001 | 2.5 | 10/14/2021 | 10/15/2021 | WG178424 |
| Phosphorus, Total | 10 | mg/L | 4.61 | | 1 | 1 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Potassium, Total | 10 | mg/L | 445 | | 1 | 1 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Selenium, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Silver, Total | 10 | mg/L | <.000401 | U | .000401 | .000401 | 1 | 10/14/2021 | 10/15/2021 | WG178424 |
| Sodium, Total | 10 | mg/L | 1220 | | 1 | 1 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Thallium, Total | 10 | mg/L | <.000752 | U | .000752 | .000752 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Tin, Total | 10 | mg/L | .0106 | | .00501 | .00501 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Vanadium, Total | 10 | mg/L | .068 | | .000752 | .000752 | | 10/14/2021 | 10/15/2021 | WG178424 |
| Zinc, Total | 10 | mg/L | .342 | | .00501 | .00501 | 5 | 10/14/2021 | 10/15/2021 | WG178424 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 10/14/2021 | 10/15/2021 | WG178450 |

*Target Parameter Count for SDG:* 25

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 10/28/2021
Report Group: CHLS-P_102821

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211021P**
SDG/Lab Sample ID: **16444 / L77911-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **10/21/2021**
LoginDate: **10/21/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .604 | | .0498 | .0498 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Antimony, Total | 10 | mg/L | .0213 | | .00299 | .00299 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Arsenic, Total | 10 | mg/L | .214 | | .000498 | .000498 | 1 | 10/22/2021 | 10/26/2021 | WG178591 |
| Barium, Total | 10 | mg/L | .109 | | .00498 | .00498 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Beryllium, Total | 10 | mg/L | <.000996 | U | .000996 | .000996 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Cadmium, Total | 10 | mg/L | <.000498 | U | .000498 | .000498 | 0.5 | 10/22/2021 | 10/26/2021 | WG178591 |
| Calcium, Total | 10 | mg/L | 69.6 | | .498 | .498 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Chromium, Total | 10 | mg/L | .121 | | .00199 | .00199 | 2.75 | 10/22/2021 | 10/26/2021 | WG178591 |
| Cobalt, Total | 10 | mg/L | .0303 | | .000498 | .000498 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Copper, Total | 10 | mg/L | .00874 | | .00199 | .00199 | 3 | 10/22/2021 | 10/26/2021 | WG178591 |
| Iron, Total | 10 | mg/L | 6.71 | | .0996 | .0996 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Lead, Total | 10 | mg/L | .00241 | | .000996 | .000996 | 2 | 10/22/2021 | 10/26/2021 | WG178591 |
| Magnesium, Total | 10 | mg/L | 80.4 | | .498 | .498 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Manganese, Total | 10 | mg/L | .545 | | .000996 | .000996 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Nickel, Total | 10 | mg/L | .15 | | .000996 | .000996 | 2.5 | 10/22/2021 | 10/26/2021 | WG178591 |
| Phosphorus, Total | 10 | mg/L | 3.03 | | .996 | .996 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Potassium, Total | 10 | mg/L | 435 | | .996 | .996 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Selenium, Total | 10 | mg/L | <.00498 | U | .00498 | .00498 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Silver, Total | 10 | mg/L | <.000399 | U | .000399 | .000399 | 1 | 10/22/2021 | 10/26/2021 | WG178591 |
| Sodium, Total | 10 | mg/L | 1210 | | .996 | .996 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Thallium, Total | 10 | mg/L | <.000747 | U | .000747 | .000747 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Tin, Total | 10 | mg/L | .0104 | | .00498 | .00498 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Vanadium, Total | 10 | mg/L | .0654 | | .000747 | .000747 | | 10/22/2021 | 10/26/2021 | WG178591 |
| Zinc, Total | 10 | mg/L | .311 | | .00498 | .00498 | 5 | 10/22/2021 | 10/26/2021 | WG178591 |
| Mercury, Total | 4 | mg/L | <.0002 | U | .0002 | .0002 | | 10/25/2021 | 10/26/2021 | WG178621 |

*Target Parameter Count for SDG:* 25

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 11/05/2021
Report Group: CHLS-P_110221

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211026P**
SDG/Lab Sample ID: **16486 / L77922-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **10/26/2021**
LoginDate: **10/26/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .773 | | .05 | .05 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Antimony, Total | 10 | mg/L | .0185 | | .003 | .003 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Arsenic, Total | 10 | mg/L | .178 | | .0005 | .0005 | 1 | 10/27/2021 | 11/01/2021 | WG178676 |
| Barium, Total | 10 | mg/L | .119 | | .005 | .005 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Cadmium, Total | 10 | mg/L | .000632 | | .0005 | .0005 | 0.5 | 10/27/2021 | 11/01/2021 | WG178676 |
| Calcium, Total | 10 | mg/L | 74.5 | | .5 | .5 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Chromium, Total | 10 | mg/L | .106 | | .002 | .002 | 2.75 | 10/27/2021 | 11/01/2021 | WG178676 |
| Cobalt, Total | 10 | mg/L | .0254 | | .0005 | .0005 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Copper, Total | 10 | mg/L | .0117 | | .002 | .002 | 3 | 10/27/2021 | 11/01/2021 | WG178676 |
| Iron, Total | 10 | mg/L | 6.17 | | .1 | .1 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Lead, Total | 10 | mg/L | .00239 | | .001 | .001 | 2 | 10/27/2021 | 11/01/2021 | WG178676 |
| Magnesium, Total | 10 | mg/L | 71 | | .5 | .5 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Manganese, Total | 10 | mg/L | .662 | | .001 | .001 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Nickel, Total | 10 | mg/L | .126 | | .001 | .001 | 2.5 | 10/27/2021 | 11/01/2021 | WG178676 |
| Phosphorus, Total | 10 | mg/L | 2.6 | | 1 | 1 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Potassium, Total | 10 | mg/L | 381 | | 1 | 1 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Selenium, Total | 10 | mg/L | <.005 | U | .005 | .005 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Silver, Total | 10 | mg/L | <.0004 | U | .0004 | .0004 | 1 | 10/27/2021 | 11/01/2021 | WG178676 |
| Sodium, Total | 10 | mg/L | 1020 | | 1 | 1 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Thallium, Total | 10 | mg/L | <.00075 | U | .00075 | .00075 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Tin, Total | 10 | mg/L | .00986 | | .005 | .005 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Vanadium, Total | 10 | mg/L | .0522 | | .00075 | .00075 | | 10/27/2021 | 11/01/2021 | WG178676 |
| Zinc, Total | 10 | mg/L | .3 | | .005 | .005 | 5 | 10/27/2021 | 11/01/2021 | WG178676 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 10/28/2021 | 10/29/2021 | WG178737 |

*Target Parameter Count for SDG:* 25

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# HYDROGEN SULFIDE GAS AT MANHOLE R10-52

| Instrument # | Serial # | Calibration Date/Time |
|---|---|---|
| RKI Eagle 2 | E2E656 | 10/1/21 @ 13:56 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 14260 | 60 | 10/1/21 @ 13:57 |

## H2S Readings

| Date | Daily Max | Daily Average |
|---|---|---|
| 10/1/2021 | 0 | 0 |
| 10/2/2021 | 0 | 0 |
| 10/3/2021 | 58 | 0.399 |
| 10/4/2021 | 0 | 0 |
| 10/5/2021 | 0 | 0 |
| 10/6/2021 | 0 | 0 |
| 10/7/2021 | 0 | 0 |
| 10/8/2021 | 0 | 0 |
| 10/9/2021 | 0 | 0 |
| 10/10/2021 | 0 | 0 |
| 10/11/2021 | 0 | 0 |

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**KING COUNTY SOLID WASTE DIVISION**
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: OCTOBER
YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | 1.00 | | | | | | | | | |
| 31 | | | | | | | | 2.00 | | | | | | | |
| TOTAL | 0 | 0.00 | 0 | 0.00 | 0 | 7000.00 | 0 | 14000.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | |

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King County
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

December 9, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Nina Wester, Environmental Scientist II, Solid Waste Division

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of November 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 11/4/21, 11/9/21, 11/16/21, 11/23/21, and 11/30/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 11/1/21-11/9/21)
- Leachate Hauling Report (for November)

The following exceedances occurred during the month of November:

| Parameter | Date of Exceedance | Aware Date | Notification Date and Time |
|---|---|---|---|
| Arsenic Loading | 11/4/21 | 11/15/21 | 11/15/21 @ 07:04 |
| Arsenic Loading | 11/9/21 | 11/23/21 | 11/23/21 @ 09:56 |
| Arsenic Loading | 11/16/21 | 12/3/21 | 12/3/21 @ 15:25 |
| Arsenic Loading | 11/23/21 | 12/7/21 | 12/7/21 @ 07:38 |
| Arsenic Loading | 11/30/21 | 12/7/21 | 12/7/21 @ 07:38 |

All other results met permit-specified limits. Per KCIW guidance, details regarding November's arsenic loading exceedances are included in the appended 14-day report.

Please contact me directly if you have any questions. I can be reached at (206) 263-3224, on my cell phone at (206) 396-9071, or by e-mail at nina.wester@kingcounty.gov.

Enclosures

cc: Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, P.E., Section Manager, SWD

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Jamey Barker, P.E., Engineer Supervisor, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Dan Swope, Engineer III, SWD
Natalya Usova, Engineer II, SWD

Printed on recycled paper

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** November **2021**____ **This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | pH | Arsenic, As | | Cadmium, Cd | | Chromium, Cr | | Copper, Cu | | Total Soluble Sulfides | Daily Industrial Flow | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LIMIT 1.0 | LOAD 0.27 | LIMIT 0.5 | LOAD 0.17 | LIMIT 2.75 | LOAD 1.20 | LIMIT 3.0 | LOAD 6.89 | LIMIT - 0.1 | LIMIT 2,700,000 (GPD) | |
| 1 | | | | | | | | | | | | 725,100 | |
| 2 | | | | | | | | | | | | 952,200 | |
| 3 | | | | | | | | | | | | 648,300 | |
| 4 | C | 8.42 | 0.062 | 0.5267 | <0.0005 | 0.0021 | 0.0434 | 0.3687 | 0.00939 | 0.0798 | <0.1 ppm | 1,018,600 | |
| 5 | | | | | | | | | | | | 1,243,000 | |
| 6 | | | | | | | | | | | | 1,311,100 | |
| 7 | | | | | | | | | | | | 1,321,100 | |
| 8 | | | | | | | | | | | | 1,022,500 | |
| 9 | C | 8.38 | 0.0483 | 0.4238 | <0.0005 | 0.0022 | 0.0332 | 0.2913 | 0.00839 | 0.0736 | <0.1 ppm | 1,052,000 | |
| 10 | | | | | | | | | | | | 964,700 | |
| 11 | | | | | | | | | | | | 1,603,700 | |
| 12 | | | | | | | | | | | | 1,538,700 | |
| 13 | | | | | | | | | | | | 1,328,100 | |
| 14 | | | | | | | | | | | | 1,599,600 | |
| 15 | | | | | | | | | | | | 1,694,600 | |
| 16 | C | 8.19 | 0.0297 | 0.3426 | <0.0005 | 0.0029 | 0.0208 | 0.2399 | 0.00849 | 0.0979 | <0.1 ppm | 1,383,100 | |
| 17 | | | | | | | | | | | | 1,568,200 | |
| 18 | | | | | | | | | | | | 1,582,800 | |
| 19 | | | | | | | | | | | | 1,368,700 | |
| 20 | | | | | | | | | | | | 889,800 | |
| 21 | | | | | | | | | | | | 1,042,000 | |
| 22 | | | | | | | | | | | | 866,900 | |
| 23 | C | 6.65 | 0.0345 | 0.2749 | <0.0005 | 0.0020 | 0.0229 | 0.1825 | 0.00791 | 0.0630 | <0.1 ppm | 955,400 | |
| 24 | | | | | | | | | | | | 965,000 | |
| 25 | | | | | | | | | | | | 376,500 | |
| 26 | | | | | | | | | | | | 902,900 | |
| 27 | | | | | | | | | | | | 963,600 | |
| 28 | | | | | | | | | | | | 931,700 | |
| 29 | | | | | | | | | | | | 977,100 | |
| 30 | C | 7.84 | 0.0392 | 0.3293 | <0.0005 | 0.0021 | 0.0289 | 0.2428 | 0.00865 | 0.0727 | <0.1 ppm | 1,007,400 | |
| 31 | | | | | | | | | | | | N/A | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Dec 9, 2021

Date

Signature of Principal Executive or Authorized Agent

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| | | | | | |
|---|---|---|---|---|---|
| Monthly Min pH | 6.65 | 11/23/21 | Total Monthly Flow (gallons) | 33,804,400 | |
| Monthly Max pH | 8.42 | 11/4/21 | Maximum Daily Flow | 1,694,600 | 11/15/21 |

PLEASE CIRCLE ALL PERMIT VIOLATIONS

**Due Date:** Monthly report is due by the 15th each month.

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** November **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | C | 0.00121 | 0.01028 | <0.0001 | 0.00042 | 0.0467 | 0.397 | <0.0004 | 0.0017 | 0.134 | 1.138 | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | C | 0.001 | 0.00877 | <0.0001 | 0.00044 | 0.0357 | 0.313 | <0.0004 | 0.0018 | 0.119 | 1.044 | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | C | <0.00099 | 0.00571 | <0.0001 | 0.00058 | 0.0234 | 0.270 | <0.0004 | 0.0023 | 0.0704 | 0.812 | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | C | <0.001 | 0.00398 | <0.0001 | 0.00040 | 0.0242 | 0.193 | <0.0004 | 0.0016 | 0.0699 | 0.557 | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | C | <0.00099 | 0.00419 | <0.0001 | 0.00042 | 0.0309 | 0.260 | <0.0004 | 0.0017 | 0.0749 | 0.629 | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Dec 9, 2021
A70EF0D0EC274A...
Signature of Principal Executive or Authorized Agent — Date

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| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | | | | | | | | | | | | | |

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** November **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

**All units are PPM unless otherwise noted.**

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) |
|---|---|---|---|
| 1 | 0 | 0 | Y |
| 2 | 0 | 0 | Y |
| 3 | 0 | 0 | Y |
| 4 | 0 | 0 | Y |
| 5 | 0 | 0 | Y |
| 6 | 0 | 0 | Y |
| 7 | 0 | 0 | Y |
| 8 | 0 | 0 | Y |
| 9 | 0 | 0 | Y |
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| 25 | | | |

## Notes

| *Parameter* | H2S – Air | | |
|---|---|---|---|
| *Monitoring Period* | November 1-9, 2021 | | |
| *Limit Type* | *15-min average* | *8-hr average* | *7-day average* |
| *Limit* | *15.0 ppm* | *10.0 ppm* | *3.0 ppm* |
| | | | |
| *Max Value* | 0 | 0 | N/A |
| *Value* | N/A | N/A | 0 |

Per KCIW guidance, the following values are reported for administrative purposes, only:

- H2S – Air MAX
- H2S – Air Average
- Monthly MAX
- Monthly Average

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
A70EEC0AED2F44A...

Dec 9, 2021

Signature of Principal Executive or Authorized Agent
Date

DocuSign Envelope ID: 0393FEC4-5F01-4D71-9EED-3F32C81BB18A

| | | | | | |
|---|---|---|---|---|---|
| **26** | | | | | |
| **27** | | | | | |
| **28** | | | | | |
| **29** | | | | | |
| **30** | | | | | |
| **31** | | | | | |

| | | |
|---|---|---|
| Monthly **MAX** | 0 | 11/1/21-11/9/21 |
| Monthly **AVG** | 0 | |

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date: Monthly report is due by the 15th each month.**

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DocuSign Envelope ID: 0393FEC4-5F01-4D71-9EED-3F32C81BB18A

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 11/22/2021
Report Group: CHLS-P_111221

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211104P** CollectDate: **11/04/2021**
SDG/Lab Sample ID: **16451 / L78063-1** LoginDate: **11/05/2021**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .66 | | .0495 | .0495 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Antimony, Total | 10 | mg/L | .00796 | | .00297 | .00297 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Arsenic, Total | 10 | mg/L | .062 | | .000495 | .000495 | 1 | 11/05/2021 | 11/08/2021 | WG178859 |
| Barium, Total | 10 | mg/L | .0655 | | .00495 | .00495 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Beryllium, Total | 10 | mg/L | <.00099 | U | .00099 | .00099 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Cadmium, Total | 10 | mg/L | <.000495 | U | .000495 | .000495 | 0.5 | 11/05/2021 | 11/08/2021 | WG178859 |
| Calcium, Total | 10 | mg/L | 71.8 | | .495 | .495 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Chromium, Total | 10 | mg/L | .0434 | | .00198 | .00198 | 2.75 | 11/05/2021 | 11/08/2021 | WG178859 |
| Cobalt, Total | 10 | mg/L | .00987 | | .000495 | .000495 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Copper, Total | 10 | mg/L | .00939 | | .00198 | .00198 | 3 | 11/05/2021 | 11/08/2021 | WG178859 |
| Iron, Total | 10 | mg/L | 3.5 | | .099 | .099 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Lead, Total | 10 | mg/L | .00121 | | .00099 | .00099 | 2 | 11/05/2021 | 11/08/2021 | WG178859 |
| Magnesium, Total | 10 | mg/L | 32.7 | | .495 | .495 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Manganese, Total | 10 | mg/L | .997 | | .00099 | .00099 | | 11/05/2021 | 11/08/2021 | WG178859 |



Client Sample ID: **LEPS211104P** CollectDate: **11/04/2021**
SDG/Lab Sample ID: **16451 / L78063-1** LoginDate: **11/05/2021**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | 10 | mg/L | .0467 | | .00099 | .00099 | 2.5 | 11/05/2021 | 11/08/2021 | WG178859 |
| Phosphorus, Total | 10 | mg/L | 1.2 | | .99 | .99 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Potassium, Total | 10 | mg/L | 131 | | .99 | .99 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Selenium, Total | 10 | mg/L | <.00495 | U | .00495 | .00495 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Silver, Total | 10 | mg/L | <.000396 | U | .000396 | .000396 | 1 | 11/05/2021 | 11/08/2021 | WG178859 |
| Sodium, Total | 10 | mg/L | 341 | D | .99 | .99 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Thallium, Total | 10 | mg/L | <.000743 | U | .000743 | .000743 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Tin, Total | 10 | mg/L | <.00495 | U | .00495 | .00495 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Vanadium, Total | 10 | mg/L | .0208 | | .000743 | .000743 | | 11/05/2021 | 11/08/2021 | WG178859 |
| Zinc, Total | 10 | mg/L | .134 | | .00495 | .00495 | 5 | 11/05/2021 | 11/08/2021 | WG178859 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 11/08/2021 | 11/10/2021 | WG178908 |

*Target Parameter Count for SDG:* 50

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 11/22/2021
Report Group: CHLS-P_111221

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211109P**
SDG/Lab Sample ID: **16390 / L78141-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **11/09/2021**
LoginDate: **11/10/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .701 | | .0498 | .0498 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Antimony, Total | 10 | mg/L | .00551 | | .00299 | .00299 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Arsenic, Total | 10 | mg/L | .0483 | | .000498 | .000498 | 1 | 11/12/2021 | 11/15/2021 | WG178967 |
| Barium, Total | 10 | mg/L | .0655 | | .00498 | .00498 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Beryllium, Total | 10 | mg/L | <.000996 | U | .000996 | .000996 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Cadmium, Total | 10 | mg/L | <.000498 | U | .000498 | .000498 | 0.5 | 11/12/2021 | 11/15/2021 | WG178967 |
| Calcium, Total | 10 | mg/L | 75.1 | | .498 | .498 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Chromium, Total | 10 | mg/L | .0332 | | .00199 | .00199 | 2.75 | 11/12/2021 | 11/15/2021 | WG178967 |
| Cobalt, Total | 10 | mg/L | .00772 | | .000498 | .000498 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Copper, Total | 10 | mg/L | .00839 | | .00199 | .00199 | 3 | 11/12/2021 | 11/15/2021 | WG178967 |
| Iron, Total | 10 | mg/L | 3.21 | | .0996 | .0996 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Lead, Total | 10 | mg/L | .001 | | .000996 | .000996 | 2 | 11/12/2021 | 11/15/2021 | WG178967 |
| Magnesium, Total | 10 | mg/L | 29.1 | | .498 | .498 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Manganese, Total | 10 | mg/L | .892 | | .000996 | .000996 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Nickel, Total | 10 | mg/L | .0357 | | .000996 | .000996 | 2.5 | 11/12/2021 | 11/15/2021 | WG178967 |
| Phosphorus, Total | 10 | mg/L | 1.37 | | .996 | .996 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Potassium, Total | 10 | mg/L | 109 | | .996 | .996 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Selenium, Total | 10 | mg/L | <.00498 | U | .00498 | .00498 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Silver, Total | 10 | mg/L | <.000398 | U | .000398 | .000398 | 1 | 11/12/2021 | 11/15/2021 | WG178967 |
| Sodium, Total | 10 | mg/L | 289 | | .996 | .996 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Thallium, Total | 10 | mg/L | <.000747 | U | .000747 | .000747 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Tin, Total | 10 | mg/L | <.00498 | U | .00498 | .00498 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Vanadium, Total | 10 | mg/L | .0169 | | .000747 | .000747 | | 11/12/2021 | 11/15/2021 | WG178967 |
| Zinc, Total | 10 | mg/L | .119 | | .00498 | .00498 | 5 | 11/12/2021 | 11/15/2021 | WG178967 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 11/12/2021 | 11/12/2021 | WG178970 |

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 12/01/2021
Report Group: CHLS-P_112421

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211116P**
SDG/Lab Sample ID: **16354 / L78151-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **11/16/2021**
LoginDate: **11/17/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .79 | | .0499 | .0499 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Antimony, Total | 10 | mg/L | .00348 | | .003 | .003 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Arsenic, Total | 10 | mg/L | .0297 | | .000499 | .000499 | 1 | 11/18/2021 | 11/19/2021 | WG179072 |
| Barium, Total | 10 | mg/L | .048 | | .00499 | .00499 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Beryllium, Total | 10 | mg/L | <.000999 | U | .000999 | .000999 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Cadmium, Total | 10 | mg/L | <.000499 | U | .000499 | .000499 | 0.5 | 11/18/2021 | 11/19/2021 | WG179072 |
| Calcium, Total | 10 | mg/L | 53.4 | | .499 | .499 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Chromium, Total | 10 | mg/L | .0208 | D | .002 | .002 | 2.75 | 11/18/2021 | 11/23/2021 | WG179072 |
| Cobalt, Total | 10 | mg/L | .00507 | | .000499 | .000499 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Copper, Total | 10 | mg/L | .00849 | | .002 | .002 | 3 | 11/18/2021 | 11/19/2021 | WG179072 |
| Iron, Total | 10 | mg/L | 2.75 | | .0999 | .0999 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Lead, Total | 10 | mg/L | <.000999 | U | .000999 | .000999 | 2 | 11/18/2021 | 11/19/2021 | WG179072 |
| Magnesium, Total | 10 | mg/L | 18.4 | | .499 | .499 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Manganese, Total | 10 | mg/L | .621 | | .000999 | .000999 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Nickel, Total | 10 | mg/L | .0234 | | .000999 | .000999 | 2.5 | 11/18/2021 | 11/19/2021 | WG179072 |
| Phosphorus, Total | 10 | mg/L | <.999 | U | .999 | .999 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Potassium, Total | 10 | mg/L | 68.1 | | .999 | .999 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Selenium, Total | 10 | mg/L | <.00499 | U | .00499 | .00499 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Silver, Total | 10 | mg/L | <.000399 | U | .000399 | .000399 | 1 | 11/18/2021 | 11/19/2021 | WG179072 |
| Sodium, Total | 10 | mg/L | 175 | | .999 | .999 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Thallium, Total | 10 | mg/L | <.000749 | U | .000749 | .000749 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Tin, Total | 10 | mg/L | <.00499 | U | .00499 | .00499 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Vanadium, Total | 10 | mg/L | .0107 | | .000749 | .000749 | | 11/18/2021 | 11/19/2021 | WG179072 |
| Zinc, Total | 10 | mg/L | .0704 | | .00499 | .00499 | 5 | 11/18/2021 | 11/19/2021 | WG179072 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 11/19/2021 | 11/22/2021 | WG179111 |

*Target Parameter Count for SDG:* 25

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 12/06/2021
Report Group: CHLS-P_120321

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211123P**
SDG/Lab Sample ID: **16460 / L78188-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **11/23/2021**
LoginDate: **11/24/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .891 | | .0501 | .0501 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Antimony, Total | 10 | mg/L | .00378 | | .00301 | .00301 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Arsenic, Total | 10 | mg/L | .0345 | | .000501 | .000501 | 1 | 11/29/2021 | 11/30/2021 | WG179195 |
| Barium, Total | 10 | mg/L | .0498 | | .00501 | .00501 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Cadmium, Total | 10 | mg/L | <.000501 | U | .000501 | .000501 | 0.5 | 11/29/2021 | 11/30/2021 | WG179195 |
| Calcium, Total | 10 | mg/L | 48.4 | | .501 | .501 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Chromium, Total | 10 | mg/L | .0229 | | .00201 | .00201 | 2.75 | 11/29/2021 | 11/30/2021 | WG179195 |
| Cobalt, Total | 10 | mg/L | .00566 | | .000501 | .000501 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Copper, Total | 10 | mg/L | .00791 | | .00201 | .00201 | 3 | 11/29/2021 | 11/30/2021 | WG179195 |
| Iron, Total | 10 | mg/L | 2.36 | | .1 | .1 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Lead, Total | 10 | mg/L | <.001 | U | .001 | .001 | 2 | 11/29/2021 | 11/30/2021 | WG179195 |
| Magnesium, Total | 10 | mg/L | 18.6 | | .501 | .501 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Manganese, Total | 10 | mg/L | .479 | | .001 | .001 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Nickel, Total | 10 | mg/L | .0242 | | .001 | .001 | 2.5 | 11/29/2021 | 11/30/2021 | WG179195 |
| Phosphorus, Total | 10 | mg/L | 1.07 | | 1 | 1 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Potassium, Total | 10 | mg/L | 70.8 | | 1 | 1 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Selenium, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Silver, Total | 10 | mg/L | <.000401 | U | .000401 | .000401 | 1 | 11/29/2021 | 11/30/2021 | WG179195 |
| Sodium, Total | 10 | mg/L | 188 | | 1 | 1 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Thallium, Total | 10 | mg/L | <.000752 | U | .000752 | .000752 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Tin, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Vanadium, Total | 10 | mg/L | .011 | | .000752 | .000752 | | 11/29/2021 | 11/30/2021 | WG179195 |
| Zinc, Total | 10 | mg/L | .0699 | | .00501 | .00501 | 5 | 11/29/2021 | 11/30/2021 | WG179195 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 12/01/2021 | 12/03/2021 | WG179255 |

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 12/06/2021
Report Group: CHLS-P_120321

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211130P** CollectDate: **11/30/2021**
SDG/Lab Sample ID: **16516 / L78189-1** LoginDate: **12/01/2021**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .834 | | .0498 | .0498 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Antimony, Total | 10 | mg/L | .00456 | | .00299 | .00299 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Arsenic, Total | 10 | mg/L | .0392 | | .000498 | .000498 | 1 | 12/02/2021 | 12/03/2021 | WG179262 |
| Barium, Total | 10 | mg/L | .0604 | | .00498 | .00498 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Beryllium, Total | 10 | mg/L | <.000997 | U | .000997 | .000997 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Cadmium, Total | 10 | mg/L | <.000498 | U | .000498 | .000498 | 0.5 | 12/02/2021 | 12/03/2021 | WG179262 |
| Calcium, Total | 10 | mg/L | 55.1 | | .498 | .498 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Chromium, Total | 10 | mg/L | .0289 | | .00199 | .00199 | 2.75 | 12/02/2021 | 12/03/2021 | WG179262 |
| Cobalt, Total | 10 | mg/L | .00684 | | .000498 | .000498 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Copper, Total | 10 | mg/L | .00865 | | .00199 | .00199 | 3 | 12/02/2021 | 12/03/2021 | WG179262 |
| Iron, Total | 10 | mg/L | 2.67 | | .0997 | .0997 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Lead, Total | 10 | mg/L | <.000997 | U | .000997 | .000997 | 2 | 12/02/2021 | 12/03/2021 | WG179262 |
| Magnesium, Total | 10 | mg/L | 21.9 | | .498 | .498 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Manganese, Total | 10 | mg/L | .606 | | .000997 | .000997 | | 12/02/2021 | 12/03/2021 | WG179262 |



Client Sample ID: **LEPS211130P** CollectDate: **11/30/2021**
SDG/Lab Sample ID: **16516 / L78189-1** LoginDate: **12/01/2021**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | 10 | mg/L | .0309 | | .000997 | .000997 | 2.5 | 12/02/2021 | 12/03/2021 | WG179262 |
| Phosphorus, Total | 10 | mg/L | 1.29 | | .997 | .997 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Potassium, Total | 10 | mg/L | 84.2 | | .997 | .997 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Selenium, Total | 10 | mg/L | <.00498 | U | .00498 | .00498 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Silver, Total | 10 | mg/L | <.000399 | U | .000399 | .000399 | 1 | 12/02/2021 | 12/03/2021 | WG179262 |
| Sodium, Total | 10 | mg/L | 235 | | .997 | .997 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Thallium, Total | 10 | mg/L | <.000747 | U | .000747 | .000747 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Tin, Total | 10 | mg/L | <.00498 | U | .00498 | .00498 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Vanadium, Total | 10 | mg/L | .0123 | | .000747 | .000747 | | 12/02/2021 | 12/03/2021 | WG179262 |
| Zinc, Total | 10 | mg/L | .0749 | | .00498 | .00498 | 5 | 12/02/2021 | 12/03/2021 | WG179262 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 12/02/2021 | 12/03/2021 | WG179284 |

*Target Parameter Count for SDG: 50*

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# HYDROGEN SULFIDE GAS AT MANHOLE R10-52

| Instrument # | Serial # | Calibration Date/Time |
|---|---|---|
| RKI Eagle 2 | E2E656 | 10/1/2021 @ 1:56:32 PM |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 11525 | 60 | 10/29/2021 @ 10:18:36 AM |

## H2S Readings

| Date | Daily Max | Daily Average |
|---|---|---|
| 11/1/2021 | 0.0 | 0.0 |
| 11/2/2021 | 0.0 | 0.0 |
| 11/3/2021 | 0.0 | 0.0 |
| 11/4/2021 | 0.0 | 0.0 |
| 11/5/2021 | 0.0 | 0.0 |
| 11/6/2021 | 0.0 | 0.0 |
| 11/7/2021 | 0.0 | 0.0 |
| 11/8/2021 | 0.0 | 0.0 |
| 11/9/2021 | 0.0 | 0.0 |

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**KING COUNTY SOLID WASTE DIVISION**
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: NOVEMBER
YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | 2.00 | | | | | | | |
| 6 | | | | | | 1.00 | | 1.00 | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | 2.00 | | | | | | | |
| 9 | | | | | | | | 2.00 | | | | | | | |
| 10 | | | | | | | | 2.00 | | | | | | | |
| 11 | | | | | | | | 2.00 | | | | | | | |
| 12 | | | | | | | | 2.00 | | | | | | | |
| 13 | | | | 1.00 | | | | 1.00 | | | | | | | |
| 14 | | | | | | | | 2.00 | | | | | | | |
| 15 | | 1.00 | | | | | | 1.00 | | | | | | | |
| 16 | | | | | | | | 2.00 | | | | | | | |
| 17 | | | | | | | | 2.00 | | | | | | | |
| 18 | | 2.00 | | | | | | 1.00 | | | | | | | |
| 19 | | | | | | | | 2.00 | | | | | | | |
| 20 | | | | | | | | 2.00 | | | | | | | |
| 21 | | | | | | | | 2.00 | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | 1.00 | | | | | | 1.00 | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | 1.00 | | 1.00 | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | 1.00 | | 1.00 | | | | | | | |
| 30 | | | | | | | | 2.00 | | | | | | | |
| 31 | | | | | | | | | | | | | | | |
| TOTAL | 0 | 21000.00 | 0 | 14000.00 | 0 | 21000.00 | 0 | 224000.00 | 0 | 7000.00 | 0 | 0.00 | 0 | 0.00 | |

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King County
**Solid Waste Division**
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 5701
Seattle, WA 98104-3855
**206-477-4466**
711 TTY Relay
www.kingcounty.gov/solidwaste

January 13, 2022

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Nina Wester, Environmental Scientist II, Solid Waste Division

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of December 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 12/7/21, 12/14/21, 12/21/21, and 12/29/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 12/7/21-12/15/21; 12/20/21-12/31/21)
- Leachate Hauling Report (for December)

The following exceedances occurred during the month of December:

| Parameter | Date of Exceedance | Aware Date | Notification Date and Time |
|---|---|---|---|
| Arsenic Loading | 12/7/21 | 12/20/21 | 12/20/21 @ 12:38 |
| Arsenic Loading | 12/21/21 | 12/29/21 | 12/29/21 @ 12:21 |

All other results met permit-specified limits. Per KCIW guidance, details regarding December's arsenic loading exceedances are included in the appended 14-day report.

Please contact me directly if you have any questions. I can be reached at (206) 263-3224, or by e-mail at nina.wester@kingcounty.gov.

Enclosures

cc: Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, P.E., Section Manager, SWD
Jennifer Keune, Interim Supervisor, SWD
Dan Swope, Engineer III, SWD
Natalya Usova, Engineer II, SWD

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** December **2021**____ **This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | pH | Arsenic, As LIMIT 1.0 | Arsenic, As LOAD 0.27 | Cadmium, Cd LIMIT 0.5 | Cadmium, Cd LOAD 0.17 | Chromium, Cr LIMIT 2.75 | Chromium, Cr LOAD 1.20 | Copper, Cu LIMIT 3.0 | Copper, Cu LOAD 6.89 | Total Soluble Sulfides LIMIT - 0.1 | Daily Industrial Flow LIMIT 2,700,000 (GPD) | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | 949,400 | |
| 2 | | | | | | | | | | | | 1,002,100 | |
| 3 | | | | | | | | | | | | 1,017,500 | |
| 4 | | | | | | | | | | | | 949,600 | |
| 5 | | | | | | | | | | | | 379,000 | |
| 6 | | | | | | | | | | | | 977,000 | |
| 7 | C | 8.27 | 0.0385 | 0.3184 | <0.0005 | 0.0021 | 0.0279 | 0.2307 | 0.00794 | 0.0657 | <0.1 | 991,500 | |
| 8 | | | | | | | | | | | | 921,500 | |
| 9 | | | | | | | | | | | | 981,900 | |
| 10 | | | | | | | | | | | | 991,700 | |
| 11 | | | | | | | | | | | | 918,500 | |
| 12 | | | | | | | | | | | | 949,600 | |
| 13 | | | | | | | | | | | | 577,700 | |
| 14 | C | 8.32 | 0.0407 | 0.2182 | <0.0005 | 0.0013 | 0.0294 | 0.1576 | 0.00555 | 0.0298 | <0.1 | 642,800 | |
| 15 | | | | | | | | | | | | 984,700 | |
| 16 | | | | | | | | | | | | 1,036,100 | |
| 17 | | | | | | | | | | | | 816,900 | |
| 18 | | | | | | | | | | | | 589,400 | |
| 19 | | | | | | | | | | | | 298,100 | |
| 20 | | | | | | | | | | | | 954,400 | |
| 21 | C | 8.37 | 0.0481 | 0. 3922 | <0.0005 | 0.0020 | 0.0326 | 0.2658 | 0.00889 | 0.0725 | <0.1 | 977,700 | |
| 22 | | | | | | | | | | | | 745,100 | |
| 23 | | | | | | | | | | | | 1,033,000 | |
| 24 | | | | | | | | | | | | 904,100 | |
| 25 | | | | | | | | | | | | 336,500 | |
| 26 | | | | | | | | | | | | 925,200 | |
| 27 | | | | | | | | | | | | 948,900 | |
| 28 | | | | | | | | | | | | 1,064,600 | |
| 29 | C | 8.21 | 0.0497 | 0.1825 | <0.0005 | 0.0009 | 0.0374 | 0.1373 | 0.00517 | 0.0190 | <0.1 | 440,200 | |
| 30 | | | | | | | | | | | | 637,200 | |
| 31 | | | | | | | | | | | | 517,100 | |

| | | | | |
|---|---|---|---|---|
| Monthly Min pH | 8.21 | 12/29/21 | Total Monthly Flow (gallons) | 25,459,000 |
| Monthly Max pH | 8.37 | 12/21/21 | Maximum Daily Flow | 1,064,600 |

12/28/21

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:

Jan 13, 2022

Signature of Principal Executive or Authorized Agent Date

A70EE30AE02E44A

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

DocuSign Envelope ID: 5357B18F-FD19-42F3-BB10-74C4EFBC30D9

King County

# Industrial Waste Program Monthly Self-Monitoring Report



Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A90021 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** December **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)**

| Sample Date (circle) | Sample Type* | Lead, Pb | | Mercury, Hg | | Nickel, Ni | | Silver, Ag | | Zinc, Zn | | Notes (indicate Batch Discharge where applicable) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LIMIT 2.0 | LOAD 1.2 | LIMIT 0.1 | LOAD 0.06 | LIMIT 2.5 | LOAD 2.49 | LIMIT 1.0 | LOAD 0.44 | LIMIT 5.0 | LOAD 12.31 | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | C | <0.001 | 0.00413 | <0.0001 | 0.00041 | 0.0294 | 0.243 | <0.0004 | 0.0017 | 0.07 | 0.579 | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | C | <0.001 | 0.00268 | <0.0001 | 0.00027 | 0.0308 | 0.165 | <0.0004 | 0.0011 | 0.0601 | 0.322 | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | C | 0.00111 | 0.00905 | <0.0001 | 0.00041 | 0.0375 | 0.306 | <0.0004 | 0.0016 | 0.0952 | 0.776 | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | C | <0.001 | 0.00184 | <0.0001 | 0.00018 | 0.0379 | 0.139 | <0.0004 | 0.0007 | 0.0906 | 0.333 | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Jennifer Yuen
A7BEF9AE9C444...
Signature of Principal Executive or Authorized Agent

Jan 13, 2022
Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

**Due Date:** **Monthly report is due by the 15th each month.**

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King County

# Industrial Waste Program Monthly Self-Monitoring Report

## H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
**Email: info.KCIW@kingcounty.gov**

**Company Name:** King County SWD - Cedar Hills Landfill **Sample Site No.** A9002 **Permit No.:** *7842-03*

***Please Specify Month & Year:*** **Month:** December **2021**

**This form is available at www.kingcounty.gov/industrialwaste.**

**All units are PPM unless otherwise noted.**

| Sample Date (circle) | $H_2S$ – Air MAX | $H_2S$ – Air Average | Active Discharge during MAX $H_2S$ reading? (Y/N) |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | 0 | 0 | Y |
| 8 | 0 | 0 | Y |
| 9 | 0 | 0 | Y |
| 10 | 0 | 0 | Y |
| 11 | 0 | 0 | Y |
| 12 | 0 | 0 | Y |
| 13 | 0 | 0 | Y |
| 14 | 0 | 0 | Y |
| 15 | 0 | 0 | Y |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | 0 | 0 | Y |
| 21 | 0 | 0 | Y |
| 22 | 0 | 0 | Y |
| 23 | 0 | 0 | Y |
| 24 | 0 | 0 | Y |
| 25 | 0 | 0 | Y |
| 26 | 0 | 0 | Y |
| 27 | 0 | 0 | Y |
| 28 | 0 | 0 | Y |
| 29 | 0 | 0 | Y |
| 30 | 0 | 0 | Y |
| 31 | 0 | 0 | Y |
| Monthly **MAX** | 0 | | 12/7/21-12/15/21; 12/20/21-12/31/21 |
| Monthly **AVG** | 0 | | |

**PLEASE CIRCLE ALL PERMIT VIOLATIONS**

## Notes

| *Parameter* | H2S – Air | | |
|---|---|---|---|
| *Monitoring Period* | December 7-15 2021; December 20-31, 2021 | | |
| *Limit Type* | *15-min average* | *8-hr average* | *7-day average* |
| *Limit* | *15.0 ppm* | *10.0 ppm* | *3.0 ppm* |
| | | | |
| *Max Value* | 0 | 0 | N/A |
| *Value* | N/A | N/A | 0 |

Per KCIW guidance, the following values are reported for administrative purposes, only:

- H2S – Air MAX
- H2S – Air Average
- Monthly MAX
- Monthly Average

Upon discovery that SWD inadvertently omitted a bump test prior to the 12/7/21 deployment, the Eagle 2 Gas Meter was bump tested and redeployed on 12/20/21 to ensure representative, accurate data.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

DocuSigned by:
Jennifer Yuen
A70FEC0DE5C7400...
Signature of Principal Executive or Authorized Agent

Jan 13, 2022
Date

**Due Date:** **Monthly report is due by the 15th each month.**

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DocuSign Envelope ID: 5357B18F-FD19-42F3-BB10-74C4EFBC30D9

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 12/17/2021
Report Group: CHLS-P_121421

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211207P**
SDG/Lab Sample ID: **16523 / L78257-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **12/07/2021**
LoginDate: **12/08/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .861 | D | .0501 | .0501 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Antimony, Total | 10 | mg/L | .00445 | | .003 | .003 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Arsenic, Total | 10 | mg/L | .0385 | | .000501 | .000501 | 1 | 12/09/2021 | 12/10/2021 | WG179368 |
| Barium, Total | 10 | mg/L | .0572 | | .00501 | .00501 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Cadmium, Total | 10 | mg/L | <.000501 | U | .000501 | .000501 | 0.5 | 12/09/2021 | 12/10/2021 | WG179368 |
| Calcium, Total | 10 | mg/L | 45.9 | | .501 | .501 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Chromium, Total | 10 | mg/L | .0279 | | .002 | .002 | 2.75 | 12/09/2021 | 12/10/2021 | WG179368 |
| Cobalt, Total | 10 | mg/L | .0068 | | .000501 | .000501 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Copper, Total | 10 | mg/L | .00794 | | .002 | .002 | 3 | 12/09/2021 | 12/10/2021 | WG179368 |
| Iron, Total | 10 | mg/L | 2.59 | | .1 | .1 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Lead, Total | 10 | mg/L | <.001 | U | .001 | .001 | 2 | 12/09/2021 | 12/10/2021 | WG179368 |
| Magnesium, Total | 10 | mg/L | 20.7 | | .501 | .501 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Manganese, Total | 10 | mg/L | .51 | | .001 | .001 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Nickel, Total | 10 | mg/L | .0294 | | .001 | .001 | 2.5 | 12/09/2021 | 12/10/2021 | WG179368 |
| Phosphorus, Total | 10 | mg/L | 1.19 | | 1 | 1 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Potassium, Total | 10 | mg/L | 81.4 | | 1 | 1 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Selenium, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Silver, Total | 10 | mg/L | <.000401 | U | .000401 | .000401 | 1 | 12/09/2021 | 12/10/2021 | WG179368 |
| Sodium, Total | 10 | mg/L | 222 | | 1 | 1 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Thallium, Total | 10 | mg/L | <.000751 | U | .000751 | .000751 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Tin, Total | 10 | mg/L | <.00501 | U | .00501 | .00501 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Vanadium, Total | 10 | mg/L | .0116 | | .000751 | .000751 | | 12/09/2021 | 12/10/2021 | WG179368 |
| Zinc, Total | 10 | mg/L | .07 | | .00501 | .00501 | 5 | 12/09/2021 | 12/10/2021 | WG179368 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 12/10/2021 | 12/13/2021 | WG179403 |

*Target Parameter Count for SDG:* 25

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 12/22/2021
Report Group: CHLS-P_122121

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211214P**
SDG/Lab Sample ID: **16558 / L78251-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **12/14/2021**
LoginDate: **12/15/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .546 | | .05 | .05 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Antimony, Total | 10 | mg/L | .00462 | | .003 | .003 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Arsenic, Total | 10 | mg/L | .0407 | | .0005 | .0005 | 1 | 12/16/2021 | 12/16/2021 | WG179508 |
| Barium, Total | 10 | mg/L | .0568 | | .005 | .005 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Beryllium, Total | 10 | mg/L | <.001 | U | .001 | .001 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Cadmium, Total | 10 | mg/L | <.0005 | U | .0005 | .0005 | 0.5 | 12/16/2021 | 12/16/2021 | WG179508 |
| Calcium, Total | 10 | mg/L | 46.7 | | .5 | .5 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Chromium, Total | 10 | mg/L | .0294 | | .002 | .002 | 2.75 | 12/16/2021 | 12/16/2021 | WG179508 |
| Cobalt, Total | 10 | mg/L | .00702 | | .0005 | .0005 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Copper, Total | 10 | mg/L | .00555 | | .002 | .002 | 3 | 12/16/2021 | 12/16/2021 | WG179508 |
| Iron, Total | 10 | mg/L | 1.97 | | .1 | .1 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Lead, Total | 10 | mg/L | <.001 | U | .001 | .001 | 2 | 12/16/2021 | 12/16/2021 | WG179508 |
| Magnesium, Total | 10 | mg/L | 21 | | .5 | .5 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Manganese, Total | 10 | mg/L | .506 | | .001 | .001 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Nickel, Total | 10 | mg/L | .0308 | | .001 | .001 | 2.5 | 12/16/2021 | 12/16/2021 | WG179508 |
| Phosphorus, Total | 10 | mg/L | 1.1 | | 1 | 1 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Potassium, Total | 10 | mg/L | 87.9 | | 1 | 1 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Selenium, Total | 10 | mg/L | <.005 | U | .005 | .005 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Silver, Total | 10 | mg/L | <.0004 | U | .0004 | .0004 | 1 | 12/16/2021 | 12/16/2021 | WG179508 |
| Sodium, Total | 10 | mg/L | 238 | | 1 | 1 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Thallium, Total | 10 | mg/L | <.000751 | U | .000751 | .000751 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Tin, Total | 10 | mg/L | <.005 | U | .005 | .005 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Vanadium, Total | 10 | mg/L | .0113 | | .000751 | .000751 | | 12/16/2021 | 12/16/2021 | WG179508 |
| Zinc, Total | 10 | mg/L | .0601 | | .005 | .005 | 5 | 12/16/2021 | 12/16/2021 | WG179508 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 12/16/2021 | 12/17/2021 | WG179523 |

*Target Parameter Count for SDG: 25*

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# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 12/28/2021
Report Group: CHLS-P_122821

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211221P**
SDG/Lab Sample ID: **16560 / L78262-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **12/21/2021**
LoginDate: **12/22/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | 1.49 | | .0509 | .0509 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Antimony, Total | 10 | mg/L | .00537 | | .00305 | .00305 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Arsenic, Total | 10 | mg/L | .0481 | | .000509 | .000509 | 1 | 12/23/2021 | 12/27/2021 | WG179613 |
| Barium, Total | 10 | mg/L | .0704 | | .00509 | .00509 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Beryllium, Total | 10 | mg/L | <.00102 | U | .00102 | .00102 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Cadmium, Total | 10 | mg/L | <.000509 | U | .000509 | .000509 | 0.5 | 12/23/2021 | 12/27/2021 | WG179613 |
| Calcium, Total | 10 | mg/L | 51.4 | | .509 | .509 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Chromium, Total | 10 | mg/L | .0326 | | .00203 | .00203 | 2.75 | 12/23/2021 | 12/27/2021 | WG179613 |
| Cobalt, Total | 10 | mg/L | .00846 | | .000509 | .000509 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Copper, Total | 10 | mg/L | .00889 | | .00203 | .00203 | 3 | 12/23/2021 | 12/27/2021 | WG179613 |
| Iron, Total | 10 | mg/L | 3.39 | | .102 | .102 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Lead, Total | 10 | mg/L | .00111 | | .00102 | .00102 | 2 | 12/23/2021 | 12/27/2021 | WG179613 |
| Magnesium, Total | 10 | mg/L | 25.7 | | .509 | .509 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Manganese, Total | 10 | mg/L | .6 | | .00102 | .00102 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Nickel, Total | 10 | mg/L | .0375 | | .00102 | .00102 | 2.5 | 12/23/2021 | 12/27/2021 | WG179613 |
| Phosphorus, Total | 10 | mg/L | 1.54 | | 1.02 | 1.02 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Potassium, Total | 10 | mg/L | 105 | | 1.02 | 1.02 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Selenium, Total | 10 | mg/L | <.00509 | U | .00509 | .00509 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Silver, Total | 10 | mg/L | <.000407 | U | .000407 | .000407 | 1 | 12/23/2021 | 12/27/2021 | WG179613 |
| Sodium, Total | 10 | mg/L | 282 | | 1.02 | 1.02 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Thallium, Total | 10 | mg/L | <.000763 | U | .000763 | .000763 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Tin, Total | 10 | mg/L | <.00509 | U | .00509 | .00509 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Vanadium, Total | 10 | mg/L | .0147 | | .000763 | .000763 | | 12/23/2021 | 12/27/2021 | WG179613 |
| Zinc, Total | 10 | mg/L | .0952 | | .00509 | .00509 | 5 | 12/23/2021 | 12/27/2021 | WG179613 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 12/23/2021 | 12/23/2021 | WG179617 |

*Target Parameter Count for SDG: 25*

DocuSign Envelope ID: 5357B18F-FD19-42F3-BB10-74C4EFBC30D9

# King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/05/2022
Report Group: CHLS-P_010522

Report To: Natalya Usova
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS211229P**
SDG/Lab Sample ID: **16580 / L78265-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **12/29/2021**
LoginDate: **12/29/2021**
Matrix: **LEACHATE**

## Metals

| Constituent | D.F. | Unit | Results | Q | MDL | RDL | Reg Limit | Prep Date | Run Date | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum, Total | 10 | mg/L | .355 | | .0503 | .0503 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Antimony, Total | 10 | mg/L | .00558 | | .00302 | .00302 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Arsenic, Total | 10 | mg/L | .0497 | | .000503 | .000503 | 1 | 12/30/2021 | 01/03/2022 | WG179648 |
| Barium, Total | 10 | mg/L | .0789 | | .00503 | .00503 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Beryllium, Total | 10 | mg/L | <.00101 | U | .00101 | .00101 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Cadmium, Total | 10 | mg/L | <.000503 | U | .000503 | .000503 | 0.5 | 12/30/2021 | 01/03/2022 | WG179648 |
| Calcium, Total | 10 | mg/L | 65.1 | | .503 | .503 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Chromium, Total | 10 | mg/L | .0374 | | .00201 | .00201 | 2.75 | 12/30/2021 | 01/03/2022 | WG179648 |
| Cobalt, Total | 10 | mg/L | .00841 | | .000503 | .000503 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Copper, Total | 10 | mg/L | .00517 | | .00201 | .00201 | 3 | 12/30/2021 | 01/03/2022 | WG179648 |
| Iron, Total | 10 | mg/L | 2.57 | | .101 | .101 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Lead, Total | 10 | mg/L | <.00101 | U | .00101 | .00101 | 2 | 12/30/2021 | 01/03/2022 | WG179648 |
| Magnesium, Total | 10 | mg/L | 27.9 | | .503 | .503 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Manganese, Total | 10 | mg/L | .898 | | .00101 | .00101 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Nickel, Total | 10 | mg/L | .0379 | | .00101 | .00101 | 2.5 | 12/30/2021 | 01/03/2022 | WG179648 |
| Phosphorus, Total | 10 | mg/L | 1.45 | | 1.01 | 1.01 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Potassium, Total | 10 | mg/L | 111 | | 1.01 | 1.01 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Selenium, Total | 10 | mg/L | <.00503 | U | .00503 | .00503 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Silver, Total | 10 | mg/L | <.000402 | U | .000402 | .000402 | 1 | 12/30/2021 | 01/03/2022 | WG179648 |
| Sodium, Total | 10 | mg/L | 310 | | 1.01 | 1.01 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Thallium, Total | 10 | mg/L | <.000754 | U | .000754 | .000754 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Tin, Total | 10 | mg/L | <.00503 | U | .00503 | .00503 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Vanadium, Total | 10 | mg/L | .0138 | | .000754 | .000754 | | 12/30/2021 | 01/03/2022 | WG179648 |
| Zinc, Total | 10 | mg/L | .0906 | | .00503 | .00503 | 5 | 12/30/2021 | 01/03/2022 | WG179648 |
| Mercury, Total | 2 | mg/L | <.0001 | U | .0001 | .0001 | | 01/03/2022 | 01/03/2022 | WG179663 |

*Target Parameter Count for SDG:* 25

DocuSign Envelope ID: 5357B18F-FD19-42F3-BB10-74C4EFBC30D9

# HYDROGEN SULFIDE GAS AT MANHOLE R10-52

| Instrument # | Serial # | Calibration Date/Time |
|---|---|---|
| RKI Eagle 2 | E2E656 | 10/1/21 @ 13:56 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 11749 | 60 | 10/29/21 @ 10:18 |

## H2S Readings

| Date | Daily Max | Daily Average |
|---|---|---|
| 12/7/2021 | 0.0 | 0.0000 |
| 12/8/2021 | 0.0 | 0.0000 |
| 12/9/2021 | 0.0 | 0.0000 |
| 12/10/2021 | 0.0 | 0.0000 |
| 12/11/2021 | 0.0 | 0.0000 |
| 12/12/2021 | 0.0 | 0.0000 |
| 12/13/2021 | 0.0 | 0.0000 |
| 12/14/2021 | 0.0 | 0.0000 |
| 12/15/2021 | 0.0 | 0.0000 |

DocuSign Envelope ID: 5357B18F-FD19-42F3-BB10-74C4EFBC30D9

# HYDROGEN SULFIDE GAS AT MANHOLE R10-52

| Instrument # | Serial # | Calibration Date/Time |
|---|---|---|
| RKI Eagle 2 | E2E656 | 10/1/21 @ 13:56 |
| **Sample Count** | **Interval Time (sec)** | **Bump Test Date** |
| 20107 | 60 | 12/15/21 @ 13:44 |

## H2S Readings

| Date | Daily Max | Daily Average |
|---|---|---|
| 12/20/2021 | 0.0 | 0.0000 |
| 12/21/2021 | 0.0 | 0.0000 |
| 12/22/2021 | 0.0 | 0.0000 |
| 12/23/2021 | 0.0 | 0.0000 |
| 12/24/2021 | 0.0 | 0.0000 |
| 12/25/2021 | 0.0 | 0.0000 |
| 12/26/2021 | 0.0 | 0.0000 |
| 12/27/2021 | 0.0 | 0.0000 |
| 12/28/2021 | 0.0 | 0.0000 |
| 12/29/2021 | 0.0 | 0.0000 |
| 12/30/2021 | 0.0 | 0.0000 |
| 12/31/2021 | 0.0 | 0.0000 |

DocuSign Envelope ID: 5357B18F-FD19-42F3-BB10-74C4EFBC30D9

**KING COUNTY SOLID WASTE DIVISION**
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: DECEMBER
YEAR: 2021

| | DUVALL | | | | | | VASHON | | | | HOBART | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | BRIGHT | | C.H. | | SPOK. | | SPOK. | | C.H. | | C.H. | | C.H. | | REMARKS |
| LOAD | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | 6000 | 7000 | |
| 1 | | 3 | | | | | | | | | | | | | |
| 2 | | | | | | | | 2 | | | | | | | |
| 3 | | | | | | | | 2 | | | | | | | |
| 4 | | | | | | 1 | | 1 | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | 3 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | 1 | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | 1 | | | | | | 1 | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | 2 | | | | | | | |
| 16 | | | | | | | | 2 | | | | | | | |
| 17 | | | | | | | | 2 | | | | | | | |
| 18 | | | | | | | | 2 | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | 2 | | | | | | | |
| 21 | | 2 | | | | | | 1 | | | | | | | |
| 22 | | | | | | | | 2 | | | | | | | |
| 23 | | 1 | | | | | | 1 | | | | | | | |
| 24 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | |
| 31 | | 1 | | | | | | | | | | | | | |
| TOTAL | 0 | 77000 | 0 | 7000 | 0 | 7000 | 0 | 140000 | 0 | 0 | 0 | 0 | 0 | 0 | |