



**CHIQUITA CANYON**  
*A Waste Connections Company*

28 de mayo de 2026

***Por e-mail***

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**Ref.: Solicitud de Retiro de los Avisos de Violaciones Emitidos al Vertedero de Chiquita Canyon, 2901 Henry Mayo Drive, Castaic, CA (WDID No. 4 19I022488) el 28 de marzo y el 9 de abril de 2024**

Estimado Sr. Colby:

La Junta Regional de Control de la Calidad del Agua de California de la Región de Los Ángeles (la "Junta Regional") le emitió avisos sobre violaciones a Chiquita Canyon, LLC ("Chiquita" o "la Empresa") el 28 de marzo y el 9 de abril de 2024 (respectivamente la "NOV del 28 de marzo" y la "NOV del 9 de abril", en su conjunto denominadas las "NOVs") denunciando descargas de lixiviados no permitidas del Vertedero de Chiquita Canyon ("CCL" o el "Vertedero") en el Río Santa Clara en varios momentos desde diciembre de 2023 hasta marzo de 2024, violando el Permiso General Industrial ("IGP") de la Junta Estatal de Control de Recursos del Agua.<sup>1</sup> Como explicó Chiquita en sus respuestas a los dos NOVs con fecha 29 de abril y 16 de mayo de 2024 (cada una de ellas adjunta a este documento), no hay bases legales ni objetivas para las denuncias de la Junta Regional. No obstante, a pesar de haberse aprobado posteriormente algunas de las prácticas de tratamiento de aguas pluviales criticadas en los NOVs, la Junta Regional no ha actuado sobre la solicitud de retiro de la Empresa.

Chiquita repite esta solicitud porque la información que hemos proporcionado a la Junta Regional indica que los hechos no sustentan las violaciones denunciadas en los NOVs. Pero los NOVs continúan estando, haciendo que la comunidad crea erróneamente que las denuncias son válidas y exponiendo a Chiquita a serios riesgos de litigio, que incluyen denuncias por daños punitivos basados en estas acusaciones infundadas. Los NOVs contienen imprecisiones importantes, por ejemplo la falsa aseveración de que Chiquita bombeó ilegalmente aguas pluviales contaminadas con lixiviados de una cuenca de detención, cuando de hecho Chiquita estaba utilizando la técnica de tratamiento de aguas pluviales típica aprobada por la Junta Regional tanto antes como después de haberse emitido los NOVs. Dejar los NOVs como están

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<sup>1</sup> Junta Estatal del Agua, Orden WQ 2014-0057-DWQ y sus enmiendas mediante la Orden WQ 2015-0122-DWQ y la Orden WQ 2018-0028-DWQ, NPDES No. CAS000001, Permiso General para Descargas de Aguas Pluviales Asociadas a Actividades Industriales (6 de noviembre de 2018), disponible [aquí](#).

perpetua la desinformación sin darle a Chiquita la oportunidad de contestar formalmente a estas denuncias. Mientras que Chiquita continúa comprometido en trabajar de forma cooperativa con la Junta Regional para asegurar el cumplimiento del IGP, esta desinformación tiene consecuencias negativas para Chiquita y nos podrá forzar a considerar un litigio, que incluye presentar una petición de un mandato judicial para obligar a la Junta Regional a retirar los NOV's y una acción paralela para recuperar los daños o los honorarios de abogados si fuera necesario. A continuación se presenta un resumen de las respuestas de Chiquita a los NOV's y la Empresa le solicita a la Junta Regional que reevalúe la base de los NOV's.

## **I. NOV del 28 de marzo - Descargas Denunciadas de Lixiviados Mezclados con Aguas Pluviales**

El primer NOV denuncia que Chiquita descargó lixiviados mezclados con escurrimiento de aguas pluviales de la Cuenca de Detención Sur del Vertedero (la "Cuenca Sur") en el Río Santa Clara el 22 y 28 de diciembre de 2023, el 17 y 22 de enero de 2024 y el 4 y 19 de febrero de 2024. La Junta Regional no denunció y Chiquita no tiene conocimiento de ninguna filtración, fuga o derrame de lixiviados específica que haya ingresado a la Cuenca Sur estos días o antes y la Junta Regional no presenta ninguna evidencia ni datos creíbles que sustenten sus denuncias de mezcla de lixiviados y aguas pluviales.

### **A. Los análisis de laboratorio no indican que se hayan mezclado lixiviados con aguas pluviales en la Cuenca Sur.**

Todos los resultados de las muestras citadas por la Junta Regional estuvieron por debajo de las pautas de limitación de efluentes aplicables ("ELGs"), los niveles numéricos para acción ("NALs") y los valores de referencia para parámetros que indiquen mezclas de lixiviados (ej.  $\alpha$ -terpineol, piridina, ácido benzoico, fenol, amoníaco, zinc benceno y pH). De hecho, ninguno de los parámetros indicadores de lixiviados del Subcapítulo N—que aplican específicamente a descargas de aguas pluviales "contaminadas" por contacto con aguas residuales del vertedero<sup>2</sup>—fueron detectados cerca de sus límites de ELG, si es que se detectaron. Simplemente no hay evidencia de que lixiviados hayan impactado las descargas de la Cuenca Sur a fines de 2023 y principios de 2024.

Las detecciones elevadas de sólidos totales suspendidos ("TSS"), la demanda biológica de oxígeno ("BOD") y el hierro en varias de las muestras de aguas pluviales no son señales de lixiviados mezclados. Estos constituyentes son comunes en aguas pluviales de vertederos durante climas húmedos debido a la erosión,<sup>3</sup> y la Empresa ha estado tomando una acción correctiva afirmativa para reducir estas descargas desde 2017. Aún así, ninguna de las concentraciones detectadas activó violaciones exigibles. El único estándar numérico aplicable es el de 400 mg/l, NAL para TSS, del IGP, que no se excedió.<sup>4</sup> Además, las excedencias en las referencias de TSS, BOD y hierro en los WDRs de 2011 sirven únicamente como indicadores generales del desempeño del control de las aguas pluviales con relación a la disposición de suelos contaminados

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<sup>2</sup> 40 C.F.R. § 445.2(b), (f).

<sup>3</sup> U.S. EPA, EPA-833-F-06-027, *Series de Hojas de Datos: Aguas Pluviales Industriales*, en 2 (2021), [https://www.epa.gov/sites/default/files/2015-10/documents/sector\\_1\\_landfills.pdf](https://www.epa.gov/sites/default/files/2015-10/documents/sector_1_landfills.pdf) ("Hoja de Datos de la EPA") ("Las descargas de aguas pluviales de vertederos y sitios de aplicación de tierra generalmente contienen niveles altos de TSS por las amplias actividades de disturbios de tierra asociadas a operaciones del vertedero"). De forma similar, hay hierro naturalmente y se detecta comúnmente en escurrimientos de aguas pluviales que fluyen por el suelo descubierto y recogen suelo y sedimentos sueltos, ya sea que lixiviados u otras aguas residuales se hayan mezclado con el escurrimiento de aguas pluviales o no.

<sup>4</sup> IGP, en 48 (§ IX.B, t.2). Las excedencias de NAL no son violaciones al permiso. IGP, en 14 (§ I.N.77)

en el Vertedero - no específicamente a contaminación de lixiviados - y en sí no son violaciones exigibles.<sup>5</sup>

De forma similar, las dos detecciones de benceno de poco nivel citadas en el NOV - 4.0 µg/l el 22 de diciembre de 2023 y 3.0 µg/l el 5 de febrero de 2024 - no sugieren mezcla de lixiviados. Estos niveles están por debajo de la referencia de 10 µg/l<sup>6</sup> y pueden resultar de una mayor actividad de equipos pesados relacionada con operaciones normales del vertedero. El bajo nivel de benceno solo, sin indicadores de lixiviados correspondientes, entonces desestima la inferencia de mezcla de la Junta Regional.

Finalmente, los niveles elevados de *E. coli* y Coliformes Totales observados en muestras de aguas pluviales desde diciembre de 2023 hasta febrero de 2024 tampoco indican contaminación de lixiviados. Mientras que excedieron el Nivel Numérico para Acción de TMDL *E. coli* TMDL<sup>7</sup> de 235 MPN/100 ml y fueron mayores que los niveles de diciembre de 2022 - en sí no son una violación al permiso<sup>8</sup>—las bacterias coliformes no pueden sobrevivir a temperaturas internas de vertederos típicas de 100-120 °F y ni hablar de las temperaturas internas elevadas en CCL causadas por el evento de vertedero de temperaturas elevadas. Estas detecciones, por lo tanto, no indican ninguna mezcla de lixiviados con aguas pluviales en la Cuenca Sur. Los niveles de *E. coli* muy probablemente están más relacionados con el mantillo utilizado por Chiquita para la estabilización del suelo. El Plan de Prevención de Contaminación de Aguas Pluviales (“SWPPP”) de Agosto de 2023 de Chiquita, que entró en vigor en enero de 2024, reconocía la colocación de desechos verdes y que probablemente entrarían en contacto con aguas pluviales.<sup>9</sup> La evaluación de *E. coli* de Nivel 1 de Chiquita de septiembre de 2025 identificó este uso beneficioso de desechos verdes como potencial contribuyente a excedencias de TNAL de *E. coli* y la Mejor Práctica de Gestión (“BMP”) resultante fue suspender ampliamente este uso beneficioso; el SWPPP actual especifica yute/hidrosemina y no desechos verdes triturados, para el control de erosiones en la pendiente expuesta.<sup>10</sup>

## **B. El lavado a presión observado no indicó mezcla de lixiviados con aguas pluviales.**

Separadamente, el NOV del 28 de marzo infiere incorrectamente que se mezclaron lixiviados con aguas pluviales y que ingresaron a la Cuenca Sur, en base a la observación del personal de la Junta Regional de lavado a presión cerca del área de recolección de lixiviados el 29 de enero de 2024. De hecho, el lavado a presión fue un BMP adecuado después de la contención de una filtración de lixiviados. Tanto la filtración como el agua de lavado fueron

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<sup>5</sup> Junta Regional, Orden No. R4-2011-0052, Enmiendas a los Requerimientos de Descarga de Desechos para Disposición y Uso de Suelos Contaminados No Designados / No Peligrosos en el Sitio y Desechos Relacionados en Vertederos de Desechos Sólidos Municipales, en 11 (§ E.4) (3 de marzo de 2011), disponibles [aquí](#) (“WDR de 2011”); *Guía para el Monitoreo y la Toma de Muestras de Aguas Pluviales Industriales* de la EPA de EE.UU., en 2–3 (abril de 2021), disponible [aquí](#).

<sup>6</sup> 2011 WDR, en 15 t.1.

<sup>7</sup> IGP Adjunto E, en 101.

<sup>8</sup> IGP, en 14 (§ I.N.77).

<sup>9</sup> Consultar el *Plan de Prevención de la Contaminación de Aguas Pluviales para el Vertedero de Chiquita Canyon* de Chiquita Canyon, LLC, en 4-4 t.4-1 (agosto de 2023) (SMARTS WDID No. 4 19I022488, Adjunto ID 3460833) (“SWPPP de agosto de 2023”).

<sup>10</sup> Consultar el *Informe de Acción de Respuesta a Excedencias de Nivel 1 de Chiquita Canyon, LLC para E. coli en el Vertedero de Chiquita Canyon*, en 6–7 §§ 8.0, 11.0 (septiembre de 2025) (SMARTS WDID No. 4 19I022488, Adjunto ID 3983048); *Plan de Prevención de Contaminación de Aguas Pluviales para el Vertedero de Chiquita Canyon* de Chiquita Canyon, LLC, en 4-9 t.4-2, 6-2 (abril de 2026), (SMARTS WDID No. 4 19I022488, Adjunto ID [4133916](#)) (“SWPPP de abril de 2026”).

contenidos y recogidos totalmente, sin evidencia - ni operativa ni de muestreos - de que hayan llegado lixiviados a la Cuenca Sur.

Para evitar cualquier potencial movimiento flujo abajo, la Empresa instala represas de control de suelo en el pozo del canal de aguas pluviales revestido de concreto flujo arriba de las cuencas. Los lixiviados que se acumulan detrás de estas represas se aspiran y se transfieren a tanques de lixiviados en el sitio para su disposición, siguiendo los requerimientos reguladores. Después de contenerse la filtración y haberse removido los lixiviados estancados, el canal se lava a presión para asegurar que esté limpio. Toda el agua de lavado también se recoge y se desecha correctamente, consistente con los BMPs estándar en la industria.<sup>11</sup>

Entre el 22 y el 28 de enero de 2024, la Empresa informó una filtración de lixiviados en el borde sudoeste del Vertedero.<sup>12</sup> Mientras ingresaban lixiviados al canal de aguas pluviales, se contuvo totalmente y se remedió con represas de control, evitando cualquier migración a la cuenca. El lavado a presión del 29 de enero observado por el personal ocurrió únicamente después de haberse completado la remediación. La única muestra relevante - la muestra tomada aleatoriamente el 22 de enero - confirmó que no habían ingresado lixiviados a la Cuenca Sur antes de la contención. En otras palabras, ninguna evidencia sustenta la denuncia del NOV que indica que llegaron lixiviados a la cuenca o que se descargaron al Río Santa Clara como resultado de la filtración o el lavado a presión. Una filtración y su limpieza, en particular en el contexto de BMPs integrales y la ausencia de evidencia de descarga, no justifican la denuncia.

## **II. NOV del 9 de abril - Supuesto "Vertido Ilegal" de Lixiviados.**

Once días después de emitir el NOV del 28 de marzo, la Junta Regional emitió un segundo NOV sumamente provocador basado en fotografías de denuncias de ciudadanos que pretendían mostrar un "vertido ilegal de lixiviados" y "un camión de vacío descargando aguas desconocidas" sobre el desagüe de la Cuenca Sur.<sup>13</sup> Sin ninguna investigación, la Junta Regional denunció violaciones del IGP y requirió que Chiquita cese todos los bombeos de la Cuenca Sur. Las denuncias anónimas de ciudadanos y las posteriores denuncias de la Junta Regional fueron falsas y tergiversaron las acciones de la Empresa y Chiquita le solicita a la Junta Regional que las retire.

### **A. Chiquita trató las aguas pluviales en absoluto cumplimiento con los BMPs estándar de la industria.**

La descarga de aguas pluviales de la Cuenca Sur el o alrededor del 8 de marzo de 2024 - que se muestra en la Foto 1 del NOV del 9 de abril - fue llevada a la atención de la Junta Regional por una denuncia anónima. La denuncia presentaba una captura de pantalla de una publicación de Facebook de ese día, que denunciaba "vertidos ilegales de lixiviados en las vías fluviales locales" (Reclamo No. COMP-60271).<sup>14</sup>

La Junta Regional no investigó independientemente ni se puso en contacto con personal del Vertedero antes

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<sup>11</sup> Consultar el *Plan de Prevención de la Contaminación de Aguas Pluviales para el Vertedero de Chiquita Canyon* de Chiquita Canyon, LLC, en 4 -5(6.6 (agosto de 2024) (SMARTS WDID No. 4 19I022488, Adjunto ID 3578734) ("SWPPP de agosto de 2024");

SWPPP de septiembre de 2025, en 6-5 (§ 6.6) (cada una de ellas describe "mejores prácticas de gestión temporales para tratar el control de filtraciones de lixiviados" implementadas en el Vertedero).

<sup>12</sup> *Informe Semanal de Inspección de Lixiviados para la Orden de Depuración Estipulada de Chiquita Canyon, LLC (Caso n.º 6177-4) Condición 27(c)* de Chiquita Canyon, LLC, (30 de enero de 2024), disponible [aquí](#).

<sup>13</sup> NOV del 9 de abril en 2-3.

<sup>14</sup> NOV del 9 de abril en 2.

de hacer referencia a la denuncia del NOV. Si lo hubiera hecho, habría descubierto que la denuncia estaba infundada.

De hecho, la Empresa estaba utilizando una entrada/el skimmer flotante para descargar lentamente aguas pluviales retenidas de la Cuenca Sur—un BMP establecido avalado por la Asociación de la Calidad de Aguas Pluviales de California en su *Manual de BMP para Construcciones de 2019*.<sup>15</sup> Este método permite que se libere agua superficial más limpia después de haberse asentado los sólidos, reduciendo la descarga de contaminantes, evitando desbordes descontrolados y minimizando molestias como mosquitos y olores. También sustenta la remoción de sedimentos de rutina para mantener la efectividad de la cuenca.<sup>16</sup>

El skimmer de la Empresa, asistido por una bomba, dirigía las aguas pluviales clarificadas sobre el desagüe (la salida secundaria diseñada de la Cuenca) al punto de descarga permitido. Como muestran las Fotos 1-5 del NOV, este sistema formaba parte de la implementación del BMP de la Empresa. Debido a las lluvias récord durante la temporada de 2023 y 2024, la Empresa operó el sistema continuamente para evitar desbordes descontrolados. La descarga era una medida de tratamiento de aguas pluviales legal, proactiva, estándar en la industria - y no un "vertido ilegal".

La Junta Regional también denuncia erróneamente que un camión de vacío estaba descargando "contenido desconocido" en el desagüe y en el punto de descarga. Nuevamente, la Junta Regional no investigó esta denuncia antes de emitir el NOV. Cualquier consulta habría demostrado que el camión que aparecía en las Fotos 4 y 5 era un camión de combustible utilizados para recargar combustible a las bombas. Al bombear de forma regular, los equipos necesitaban que se les recargue combustible aproximadamente cada ocho horas. La Empresa recargaba el combustible de estos equipos utilizando un camión de combustible de la Empresa que se encuentra en el sitio, que es el camión que aparece en las fotos. La descarga observada era simplemente agua pluvial bombeada de la superficie de la Cuenca, como se muestra en las Fotos 1-3 del NOV y como se describe arriba. Nuevamente, no hubo un "vertido ilegal".

## **B. La Junta Regional ha aprobado afirmativamente el bombeo de aguas pluviales de la Cuenca Sur.**

La Junta Regional le ordenó a Chiquita que deje de bombear de la Cuenca Sur en el NOV del 9 de abril, pero desde ese momento ha aprobado la práctica. Chiquita primero solicitó permiso para bombear aguas pluviales de la cuenca sur el 24 de julio de 2024 para usar el agua para suprimir el polvo y facilitar el mantenimiento necesario en el muro de corte de la Cuenca.<sup>17</sup> El 12 de agosto de 2024 Chiquita solicitó por separado un permiso para reiniciar el uso de una entrada/skimmer flotante con una

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<sup>15</sup> “El skimmer flotante . . . es una configuración de salida alternativa (patentada) que drena agua desde la parte superior de la columna de agua. Esta configuración se ha estado utilizando para cuencas temporales y permanentes y puede mejorar el rendimiento de la cuenca eliminando orificios inferiores que tienen el potencial de descargar sólidos. Algunas consideraciones de diseño para este dispositivo de salida alternativo incluyen el agregado de un filtro de arena perforado debajo del drenaje en el punto bajo de la cuenca y cerca del skimmer flotante. Estos drenajes secundarios permiten el drenaje completo de la cuenca”. CASQA, “Cuenca de Sedimento SE-2,” en 8, *Manual de BMP para Construcciones 2019*, disponible [aquí](#). La versión 2019 de este documento es la más reciente que hay disponible al público. En 2023 la información es la misma.

<sup>16</sup> SWPPP de marzo de 2024, en 6-1 (§ 6.2); SWPPP de febrero de 2025, en 6-1 (§ 6.2), 6-4 a 6-5 (§ 6.5).

<sup>17</sup> E-mail de Steve Cassulo para Douglas Cross (24 de julio de 2024).

bomba incluida para descargar aguas pluviales desde la parte superior de la columna de agua de la Cuenca hacia la descarga sur, de forma regular, durante la temporada de lluvia.<sup>18</sup>

La Junta Regional otorgó la solicitud de control de polvo de Chiquita sujeto a ciertas condiciones el 28 de agosto de 2024.<sup>19</sup> La Junta Regional posteriormente afirmó que Chiquita podía "volver a bombear y utilizar la cuenca de sedimento sur como estaba diseñada y como se describe en su SWPPP."<sup>20</sup>

La aprobación afirmativa de la Junta Regional del BMP histórico de Chiquita yace en que Chiquita no violó el IGP cuando realizó descargas controladas desde la Cuenca Sur utilizando una entrada/un skimmer flotante y una bomba a principios de 2024.

### **III. Los NOV's deben retirarse.**

La ley y los hechos son claros: no hay indicativo de que Chiquita haya descargado aguas pluviales contaminadas con lixiviados - ni hablar de lixiviados "descargados" - en el Río Santa Clara, como denuncia el NOV. Por lo tanto, las violaciones denunciadas en los NOV's del 28 de marzo y del 9 de abril todas carecen de mérito. Desde que recibió las respuestas de Chiquita de los NOV's, la Junta Regional no ha elevado otras inquietudes. Incluso ha reconocido que el uso de la Empresa de la bomba y de la entrada/el skimmer flotante es un BMP para aguas pluviales que está implementado correctamente.

No obstante, la Junta Regional no ha retirado los NOV's. Debido a esto, las denuncias civiles contra la Empresa ahora las citan - y la corte del distrito, que todavía no tiene conocimiento del complejo antecedente descrito arriba, ha aceptado - como denuncias suficientemente viables de "vertido ilegal" para justificar denuncias por daños punitivos injustificados.<sup>21</sup> Además, los NOV's están causándole un daño continuo a la Empresa en su reputación.

Chiquita por lo tanto le solicita a la Junta Regional que rescinda los NOV's. Si la Junta Regional no actúa, Chiquita presentará una acción legal si es necesario contra la Junta o contra sus funcionarios de medidas cautelares y para recuperar sus pérdidas.

Agradecemos su pronta atención y nos mantenemos disponibles para realizar una reunión técnica cuando les resulte conveniente.

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<sup>18</sup> E-mail de Steve Cassulo para Pavlova Vitale (12 de agosto de 2024).

<sup>19</sup> Email de Pavlova Vitale para Steve Cassulo (28 de agosto de 2024).

<sup>20</sup> Email de Scott Landon para Steve Cassulo (31 de enero de 2025); *acuerdo* E-mail de Scott Landon para Steve Cassulo (3 de febrero de 2025) (reafirmando lo mismo).

<sup>21</sup> *Consultar* Cuarto Reclamo Enmendado, en 3, ECF No. 107, *En el Asunto Litigio del Vertedero de Chiquita Canyon*, No. 2:23-cv-02081 (C.D. Cal. 29 de marzo de 2024) (denunciando que "Los demandados han desagotado ilegalmente el líquido tóxico en el Río Santa Clara"); *Howse v. Chiquita Canyon, LLC*, No. 2:23-CV-08380, 2024 WL 4828705, en \*19 (C.D. Cal. Nov. 19, 2024) (sosteniendo que la denuncia de los demandantes que indica que Chiquita "desagotó ilegalmente lixiviados en un río local" era suficiente para alegar malicia) (el litigio de *Howse* ha sido consolidado con otros casos, formando el litigio *En el Asunto Chiquita* citado arriba). Los reclamos que no han adoptado *Howse* contienen denuncias similares sobre "desagües ilegales" respaldando su solicitud de daños punitivos.

Atentamente,



Kevin Green  
Gerente de Distrito  
Chiquita Canyon, LLC

Adjuntos      Adjunto A (Respuesta de Chiquita al NOV del 28 de marzo, con fecha 29 de abril de 2024)  
                  Adjunto B (Respuesta de Chiquita al NOV del 9 de abril, con fecha 16 de mayo de 2024)

cc                John Perkey, Chiquita Canyon  
                  Dylan Smith, Chiquita Canyon  
                  Sarah Phillips, Chiquita Canyon  
                  Jenny Newman, Junta Regional de Control de Calidad del Agua de Los Ángeles  
                  Pavlova Vitale, Junta Regional de Control de Calidad del Agua de Los Ángeles  
                  Enrique Casas, Junta Regional de Control de Calidad del Agua de Los Ángeles  
                  Amy Miller, Agencia de Protección Ambiental de Estados Unidos  
                  Laura Friedli, Agencia de Protección Ambiental de Estados Unidos

# **Attachment A**



April 29, 2024

***Via E-Mail***

Sean Lee  
Los Angeles Regional Water Quality Control Board  
Stormwater Compliance & Enforcement Unit  
320 W. 4th Street, Suite 200  
Los Angeles, CA 90013  
Sean.Lee@waterboards.ca.gov

**Re: Notice of Violation: Discharge Prohibitions and Failure to Develop a Complete Storm Water Pollution Prevention Plan and Implement Best Management Practices – Chiquita Canyon Landfill, 2901 Henry Mayo Drive, Castaic, California (WDID 4 19I022488)**

Dear Mr. Lee:

Chiquita Canyon, LLC (“Chiquita”) hereby submits the following in response to the Notice of Violation (“NOV”) issued by the California Regional Water Quality Control Board, Los Angeles Region (“Regional Board”) on March 28, 2024. Chiquita operates the Chiquita Canyon Landfill (“Landfill”) located at 29201 Henry Mayo Drive, Castaic, California.

The NOV alleges violations of the State Water Resources Control Board’s National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Industrial Activities amended November 6, 2018, and effective July 1, 2020 (Order No. 2014-0057-DWQ amended by 2015-0122-DWQ), NPDES No. CAS000001 (“IGP”).

Chiquita has not violated the IGP despite the unprecedented Elevated Temperature Landfill Event (“ETLF” or “Reaction”) currently affecting the Landfill. Specifically, the alleged violations detailed in the NOV are unsupported by available data, are unrelated to leachate at the Landfill, and fail to meet the Regional Board’s legal burden to demonstrate violations of the IGP. Furthermore, as detailed in both Chiquita’s December 22, 2023 response, as well as the final report submitted by Chiquita on February 20, 2024, Chiquita has been actively implementing Best Management Practices (BMPs) to effectively mitigate and reduce the impacts of leachate at the Landfill pursuant to the IGP.

It is important to also note that the Regional Board previously issued a NOV, dated March 24, 2023, alleging failure by Chiquita to conform with various SWPPP requirements outlined in the

IGP. However, following an assessment of the alleged violations, including extensive information sharing between the Regional Board and Chiquita staff, the Regional Board determined that there were in fact no deficiencies of the SWPPP. The Regional Board therefore withdrew the NOV with no further enforcement. Chiquita's operations and procedures pursuant to its SWPPP continue to comply with and align with the IGP and related requirements.

### **Discharge Prohibition Violations**

- 1) *The Permittee's December 22 and December 28, 2023 effluent sampling of the south detention basin discharge indicated that Total Suspended Solids (TSS) was present at 170 milligrams per liter (mg/L) and 240 mg/L, respectively, above the Effluent Limitation Guidelines (ELG) maximum monthly average of 27 mg/L [these results are also above the annual Numeric Action Level (NAL) of 100 mg/L]. The December 28, 2023 sample also showed that biochemical oxygen demand (BOD) was present at 93 mg/L, above the ELG's maximum monthly average of 37 mg/L. Other analytical results showing notable detections include iron (Fe) at 4.5 mg/L [above the annual NAL of 1.0 mg/L], E. Coli at 650,000 most probable number per 100 milliliters (MPN/100 mL) [above the Total Maximum Daily Load NAL (TNAL) = 235 MPN/100 mL], and Total Coliform at 2,419,600 MPN/100 mL. These results were significantly higher compared to the sampling results in December 2022, as well as higher than the applicable regulatory benchmarks. Additionally, multiple Waste Discharge Requirement (WDR, Order No. R4-2018-0172) monitoring parameters (MPars) were detected in the December 28, 2023 samples including phenol, ammonia, chloride, arsenic, chromium, and zinc. Based on this reported data and the severe weather condition on December 22, 2023, leachate comingled with stormwater runoff which flowed into the stormwater basin and into the south detention basin where it discharged into the Santa Clara River. This is a violation of Industrial General Permit Sections III.A-C, V.A-B, and VI.A-C.*
- 2) *The Permittee's January 17 and January 22, 2024 effluent sampling of the south detention basin discharge indicated that TSS was detected at 31 mg/L and 64 mg/L, respectively, above the ELG's maximum monthly average of 27 mg/L. BOD was detected at 46 mg/L and 45 mg/L, respectively, above the ELG's maximum monthly average of 37 mg/L. Results for other parameters with notable detections during the January 17, 2024 sampling event included E. Coli at 2,400 MPN/100 mL [TNAL = 235 MPN/100 mL] and Total Coliform at 92,000 MPN/100 mL. Additionally, benzoic acid, p-cresol, phenol, ammonia, arsenic, chromium, and zinc (WDR MPars, Order No. R4-2018-0172) were detected in the January 22, 2024 sample.*

*During the January 29, 2024 inspection, Staff observed facility personnel conducting power washing and cleanup of the concrete-lined drainage channel that is adjacent to the leachate leaking and collection area. The portion of the concrete-lined drainage channel that was being cleaned up is located upgradient of the stormwater basin. Based on this reported data and the proximity of the leachate leaking area to the channel, leachate migrated into the concrete-lined drainage channel, comingled with stormwater runoff which flowed into the stormwater basin and into the south detention basin where it*

*discharged into the Santa Clara River. This is a violation of Industrial General Permit Sections III.A-C, V.A-B, and VI.A-C*

- 3) *The Permittee's February 5 and February 20, 2024 effluent sampling of the south detention basin discharge indicated that TSS was detected at 330 mg/L and 110 mg/L, respectively, above the ELG's maximum monthly average of 27 mg/L [also above the annual NAL of 100 mg/L]. BOD was detected on February 5, 2024 at 74 mg/L above the ELG's maximum monthly average of 37 mg/L. Results for other parameters with notable detections include Fe [above annual NAL of 1.0 mg/L] at 7.3 mg/L and 4.5 mg/L on February 5 and February 20, 2024, respectively, and both E. Coli [TNAL = 235 MPN/100 mL] and Total Coliform detected greater than 1,600 MPN/100 mL on both February 5 and February 20, 2024. Additionally, benzoic acid, p-cresol, phenol, ammonia, arsenic, chromium, and zinc (WDR MPars, Order No. R4-2018-0172) were detected in the February 2024 samples.*

*During the week of February 4 and February 19, 2024, heavy rainstorm events occurred at Chiquita Canyon Landfill over at least a period of three days. Based on this reported data and the occurrence of severe weather conditions, leachate comingled with stormwater runoff which flowed into the stormwater basin and into the south detention basin where it discharged into the Santa Clara River. This is a violation of Industrial General Permit Sections III.A-C, V.A-B, and VI.A-C.*

## **RESPONSE:**

**As set forth in the allegations, the Regional Board bases its alleged finding that leachate has comingled with stormwater and discharged into the Santa Clara River on the detections of metals, Total Coliforms and E. Coli, Ammonia, and other organic compounds in discharge from the South Detention Basin ("Basin"). The Regional Board attempts to validate this allegation by simply stating that the detections and related concentrations of such constituents are either "significant" or "notable" or that the constituents were even detected. The Regional Board fails to provide any further basis or information to substantiate its allegation. In fact, following extensive review by Chiquita and its consultants, no available information supports an inference of a violation of the IGP, much less meets the Regional Board's burden to demonstrate such a violation of the IGP.<sup>1</sup>**

**Following review of all available data, including relevant leachate and stormwater at the Landfill, the evidence does not support the comingling of leachate and discharge of leachate to the Santa Clara River for the following reasons:**

- As shown by the time series plots in Attachment 1, there are no observable correlations between constituents present in Landfill leachate and the Basin stormwater runoff.**

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<sup>1</sup> The Regional Board has the burden of demonstrating any violations of the IGP and/or related state law by the preponderance of available evidence, data, and information. *See In re Colin-Strawberry Water Co., Inc.*, 2005 WL 1798306 (Cal. P.U.C.) (July 21, 2005).

- **The trend analyses in Attachment 2 show there are no statistically significant trends in any of the 26 stormwater monitoring parameters that were evaluated. Therefore, although some of the results may have been notable in the opinion of the Regional Board, they are not statistically significant and do not satisfy the Regional Board’s legal burden to demonstrate a violation of the IGP.**
- **Combined Benzene-Toluene-Ethylbenzene-Xylenes (BTEX) compounds have been detected in two of 12 Basin stormwater samples at a maximum concentration of 0.0047 mg/L. The other samples have been non-detects (NDs). As indicated in Table 1 of Attachment X, Benzene is a diagnostic indicator of reaction area leachate. The mean concentration of benzene in reaction area leachate is about 100 times higher than the concentration of BTEX detected in the two of 12 Basin samples.**
- **As indicated in the enclosed Table 1 and supported by Attachments 3, 4, and 5, Pyridine is another diagnostic indicator of reaction area leachate. However, it has not been detected in any sample from the Basin to date. Similarly, the Subchapter N a-Terpineol parameter is used as an indicator of landfill-related impacts. This constituent has not been detected in any Basin stormwater sample to date.**
- **Although Total Coliforms and E. Coli bacteria may be associated with organics, they cannot survive in aquatic environments where temperatures exceed approximately 100 to 120 degrees Fahrenheit. Typical internal landfill temperatures exceed this threshold. This is especially true in the case of the Landfill, which is experiencing an ETLF event. Therefore, these bacteria are not likely associated with Landfill leachate.**

**Further, the use of Effluent Limitation Guidelines (ELG) maximum monthly averages—as the Regional Board attempts to do so in the above allegations—is inappropriate for evaluating qualifying storm event (QSE) sample events where two sample events just happened to occur in the same month (i.e., attempting to take two daily averages and calculate a monthly average). The ELG national regulatory standards for discharges to surface waters and municipal sewage treatment plants, typically where there is continuous discharge, are sampling at specific time intervals.**

**Instead, effluent limit standards for this type of sampling under 40 C.F.R. Part 445.21 should be the ELG maximum daily limit. For all the effluent limit testing, each discharge was below their ELG maximum daily limit, with the exception of Total Suspended Solids (“TSS”) and Iron (“Fe”), which are unrelated to leachate and have been included in previous corrective action responses dating back to 2017. TSS and Fe are common concerns for typical landfill industrial activities (unrelated to leachate). As the Regional Board is aware, both constituents are currently in Exceedance Response Action (ERA) Level 2 reporting pursuant to the IGP. Any exceedances of the ELG maximum monthly averages within the allegations—or any allegation attempting to connect such exceedances to leachate—are unsupported and inappropriate in this case.**

**Lastly, despite there being no detections or other sampling data in the allegations indicating that leachate has discharged to the Santa Clara River, even if such occurrence did occur, this type of occurrence would still not be a violation of the IGP.<sup>2</sup> Following increased leachate seepage at the Landfill due to the Reaction, Chiquita began assessing all potential impacts of leachate to stormwater at the Landfill. As a result, and consistent with the IGP, Chiquita proactively began analyzing all stormwater discharge samples for Subchapter N parameters (40 C.F.R. Part 445) in December 2023, in addition to all other parameters required by the IGP. Because contaminated stormwater includes, but is not limited to leachate, Chiquita applied the best practice control technologies currently available (“BPTs”) consistent with Section 6.6 of the SWPPP to meet effluent limits in 40 C.F.R. Part 445.21 for all ELG maximum daily limits. Following review of all available data, the Landfill’s BPTs meet this standard for the Subchapter N parameters, excluding TSS and Fe, which as stated above are wholly unrelated to leachate at the Landfill and part of ongoing ERA Level 2 requirements pursuant to the IGP.**

**SWPPP/MIP Violations:**

- 1) The Permittee has not included sampling/monitoring for all ELG parameters in the SWPPP/MIP as required under the Industrial General Permit. This is a violation of the Industrial General Permit Sections XI.B.6.g and X.I and Attachment A.1.*

**RESPONSE:**

**This allegation is meritless. Chiquita’s SWPPP identifies all ELG parameters in Section 7.5.1 of the SWPPP by referring to the Subchapter N Parameters. Chiquita began sampling for these parameters in December 2023 and continues to do so for all discharge events into and out of the Basin.**

- 2) The SWPPP certification page is missing. This is a violation of the Industrial General Permit Section X.B.2.*

**RESPONSE:**

**This allegation is also meritless. Section X.B.2 of the IGP is reproduced below. As shown and required, all certifications are done electronically via SMARTS, in accordance with permit requirements. Therefore, no certification page is required pursuant to the IGP.**

***All Dischargers are required to implement their SWPPP by July 1, 2015 or upon commencement of industrial activity. Chiquita shall:***

- 1) Revise its on-site SWPPP whenever necessary;*

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<sup>2</sup> See [Industrial General Permit Fact Sheet](#), p.179 (clarifying that “it is not a violation of this General Permit to exceed the NAL/TNAL values; it is a violation of the permit, however, to fail to comply with the Level 1 status and Level 2 status ERA requirements in the event of NAL/TNAL exceedances”).

- 2) *Certify and submit via SMARTS its SWPPP within 30 days whenever the SWPPP contains significant revision(s); and*
  - 3) *With the exception of significant revisions, Chiquita is not required to certify and submit via SMARTS its SWPPP revisions more than once every three (3) months in the reporting year.*
- 3) *The facility map (posted 08/27/2018 in SMARTS and dated 07/25/2018) is not updated and does not reflect current site conditions and structural features. This is a violation of the Industrial General Permit Section X.E.*

**RESPONSE:**

**This allegation does not acknowledge that there have been numerous updates to the SWPPP in SMARTS, which have updated the facility map to reflect site conditions and structural features. These include, but are not limited to, the following:**

- **New Issued SWPPP (9/11/23);**
- **Updated SWPPP Amendment February (2/19/24);**
- **Updated Facility Site Map (3/12/2024);**
- **Updated SWPPP March (3/20/2024); and**
- **Updated SWPPP April (4/19/2024).**

- 4) *The evaluation of potential pollutant sources in the SWPPP has not been updated to include the ongoing leachate seepage onsite. This is a violation of the Industrial General Permit Section X.F-G.*

**RESPONSE:**

**Again, this allegation does not acknowledge that there have been several updates to the SWPPP in SMARTS that address leachate seepage, including the addition of Sections 6.6 and 6.7 and updates to Section 4 of the SWPPP. Specifically, the following updates have addressed the concerns raised in this allegation:**

- **Updated SWPPP Amendment February (2/19/24);**
- **Updated Facility Site Map (3/12/2024);**
- **Updated SWPPP March (3/20/2024); and**
- **Updated SWPPP April (4/19/2024).**

- 5) *Additional BMPs implemented for the containment of existing leaking leachate and cleanup of potential migration of leachate into the storm channels and other stormwater runoff pathways are not included and discussed in the SWPPP. This is a violation of the Industrial General Permit Section X.H.2.*

**RESPONSE:**

**Contrary to this allegation, Section 6.6 of the SWPPP originally updated through SMARTS on February 19, 2024, and again on April 19, 2024, detail additional BMPs implemented for the containment of leachate seeps and cleanup of potential migration of leachate into the stormwater channels. The BMPs outlined in the most recent updated Sections 6.6 and 6.7 of the SWPPP to manage leachate seep control and prevent leachate migration with stormwater runoff into onsite discharge channels, drain inlets, and inlets to the Basin, include:**

- **Perform regular inspections of reaction area slopes.**
- **Immediately contain any seeps using dirt/soil berms or dams, or by diverting it back to the Landfill's leachate collection system.**
- **Immediately contact site management to report seep location.**
- **Monitor seeps periodically for any breach or other issues.**
- **Reroute leachate and minimize its exposure to open air.**
- **Install "toe drain" to direct the leachate onto the liner and leachate collection system.**
- **Control leachate seep in the concrete stormwater channel by constructing dirt berms/dams to allow removal via vacuum trucks.**
- **Utilize (as necessary) an inflatable pipe pig in the pipe leading to the Basin to prevent commingling with stormwater and allow for quick removal via vacuum trucks.**
- **Any impacted concrete ditches/channels shall be pressure washed and wash liquid collected by vacuum truck.**
- **In the event leachate must be transported from a leachate seep to a tank or other collection/treatment location, transport the leachate with a vacuum truck or via pipes.**
- **Temporary leachate/condensate storage frac tanks are located within the footprint of the Landfill on Cell 8A and Primary Canyon. Secondary containment is provided. Stormwater collected in the secondary containment is disposed of as leachate.**

- **The Landfill is currently installing a 30-mil High Density Polyethylene (HDPE) geomembrane cover in phases over portions of the reaction area to counter methane surface exceedances, fugitive gas emissions in the shorter-term, and surface exposure of leachate coming in potential contact with stormwater. Installation of the geosynthetic cover is currently being undertaken in accordance with requirements of the Local Enforcement Authority.**

### **BMP Violations**

1. *Effective BMPs have not been implemented at the leachate seepage and collection area to ensure leachate containment and prevention of its migration into the storm channel and stormwater basin. Leachate seepage is currently ongoing at the landfill perimeter and not yet fully contained. The seepage area is located upgradient of the stormwater basin and in very close proximity to the concrete storm channel as shown in Photographs 1-13 attached. This is a violation of the Industrial General Permit Section X.H.2.*

### **RESPONSE:**

**Section X.H.2 of the IGP requires advanced BMPs which Chiquita began to implement as required and to the extent feasible. Specifically, the requirements in the IGP are as follows:**

- a. *In addition to the minimum BMPs described in Section X.H.1, the Discharger shall, to the extent feasible, implement and maintain any advanced BMPs identified in Section X.G.2.b, necessary to reduce or prevent discharges of pollutants in its storm water discharge in a manner that reflects best industry practice considering technological availability and economic practicability and achievability.*

- b. *Advanced BMPs may include one or more of the following BMPs:*

- i. *Exposure Minimization BMPs*

*These include storm resistant shelters (either permanent or temporary that prevent the contact of stormwater with the identified industrial materials or area(s) of industrial activity.*

- ii. *Storm Water Containment and Discharge Reduction BMPs*

*These include BMPs that divert, infiltrate, reuse, contain, retain, or reduce the volume of storm water runoff. Dischargers are encouraged to utilize BMPs that infiltrate or reuse storm water where feasible.*

- iii. *Treatment Control BMPs*

*This is the implementation of one or more mechanical, chemical, biologic, or any other treatment technology that will meet the treatment design standard.*

*iv. Other Advanced BMPs*

*Any additional BMPs not described in subsections b.i through iii above that are necessary to meet the effluent limitations of this General Permit.*

**As outlined above, Section 6.6 of the SWPPP lists the advanced BMPs currently undertaken to manage leachate seeps and prevent comingling of leachate with stormwater runoff into onsite discharge channels, drain inlets, and inlets to the Basin.**

2. *Additional supplemental BMPs have not been implemented to safeguard full containment of all leachate from the seepage area. The Industrial General Permit does not authorize the discharge of leachate. Due to the proximity of the leachate seepage area to the concrete storm channel, the risk to discharge or migrate or comingling with stormwater runoff is extremely high, therefore, supplemental BMPs are required to prevent its discharge. The lack of supplemental BMPs is a violation of the Industrial General Permit Section X.G.e.*

**RESPONSE:**

**Section X.G.1.e of the IGP does not require supplemental BMPs. Supplemental BMPs are requirements of the SWPPP for non-stormwater discharge (NSWD). Specifically, the requirements in the IGP are as follows:**

*The Discharger shall:*

- i. Ensure the SWPPP includes an evaluation of the facility that identifies all NSWDs, sources, and drainage areas;*
- ii. Ensure the SWPPP includes an evaluation of all drains (inlets and outlets) that identifies connections to the storm water conveyance system;*
- iii. Ensure the SWPPP includes a description of how all unauthorized NSWDs have been eliminated; and,*
- iv. Ensure all NSWDs are described in the SWPPP. This description shall include the source, quantity, frequency, and characteristics of the NSWDs, associated drainage area, and whether it is an authorized or unauthorized NSWD in accordance with Section IV.*

**Section 4.5 of the SWPPP addresses NSWD:**

*Water trucks are frequently used for wetting soil surfaces at the Landfill in order to reduce fugitive dust. The spray water is only applied in amounts that evaporate or is absorbed into the soil and does not discharge. Water trucks are only utilized during the dry season or extended periods of dry weather during the wet season. In the event that this water discharges, it is considered an unauthorized NSWD.*

**Based on historical inspections and observations, no unauthorized NSWDS have been observed at the Landfill discharge points.**

3. *There is inadequate landfill slope stabilization: erosion and rills, broken sandbags in slope check dams, and collapsed silt fences were observed on landfill slopes (Photographs 4 and 5). This is a violation of the Industrial General Permit Section X.H.1.e.*

**RESPONSE:**

**This allegation mischaracterizes the slope stabilization features in place at the Landfill slopes in the photographs. The native cut slope had stabilization features put in place prior to forecasted storm events including hydroseed (BMP SE-4), fiber rolls (BMP SE-5), and silt fences (BMP SE-1). These BMPs provide effective slope stabilization as outlined in California the Stormwater Quality Association (CASQA) guidelines.**

**Further, the collapsed silt fencing indicates that it was effective in collecting silt. The sandbags were also effective in providing sufficient slope stabilization. The sandbags are positioned along the perimeter access road, not in slope check dams as alleged, and as a result, were impacted by traffic. Both stabilization features were repaired prior to the onset of the next forecasted storm event.**

**CONCLUSION**

As discussed above, Chiquita has not violated the IGP and the alleged violations detailed in the NOV are unsupported by available data, are unrelated to leachate at the Landfill, and fail to meet the Regional Board's legal burden to demonstrate violations of the IGP. Chiquita continues to actively implement BMPs to effectively mitigate and reduce the impacts of leachate at the Landfill pursuant to the IGP.

Regards,



Steve Cassulo  
District Manager  
Chiquita Canyon, LLC

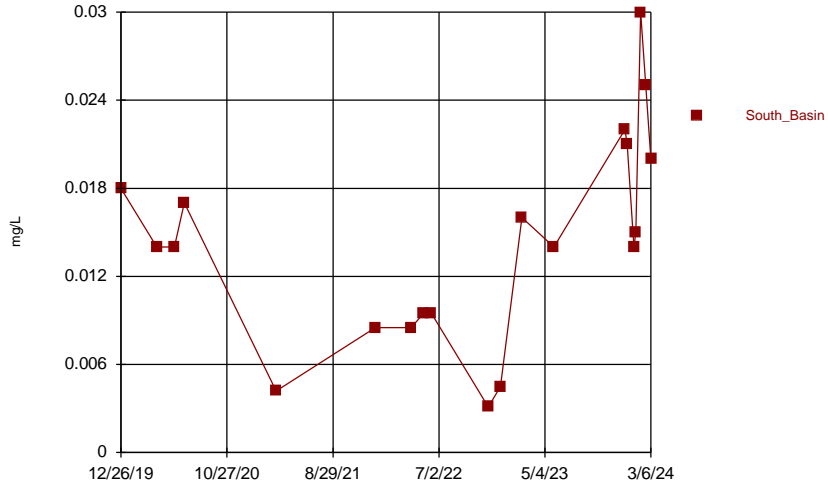
Attachments    Attachment 1 (Time Series Plots)  
                    Attachment 2 (Trend Analyses)  
                    Attachment 3 (Stormwater Data)  
                    Attachment 4 (Typical Landfill Leachate)  
                    Attachment 5 (Reaction Area Leachate)  
                    Table 1 (Leachate-Stormwater Comparison)

cc: (via email)  
Nicole Ward, Chiquita  
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Robert Ragland, Los Angeles County Department of Public Health  
Liza Frias, Los Angeles County Department of Public Health  
Nichole Quick, M.D., Los Angeles County Department of Public Health  
Shikari Nakagawa-Ota, Los Angeles County Department of Public Health  
Ken Habaradas, Los Angeles County Department of Public Health  
Karen Gork, LEA  
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Wes Mindermann, CalRecycle  
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Jeff Lindberg, California Air Resources Board  
Vanessa Aguila, California Air Resources Board  
Jack Cheng, South Coast Air Quality Management District  
Larry Israel, South Coast Air Quality Management District  
Douglas Cross, Los Angeles Regional Water Quality Control Board  
Thanne Berg, United States Environmental Protection Agency

# Attachment 1

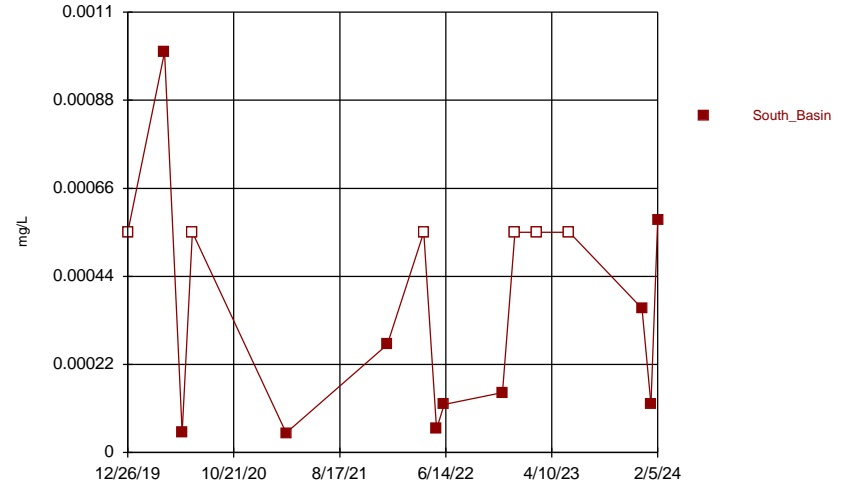
**Attachment 4**  
**TIME SERIES PLOTS OF CONSTITUENTS ANALYZED IN**  
**LEACHATE AND STORM WATER RUNOFF**

### Time Series



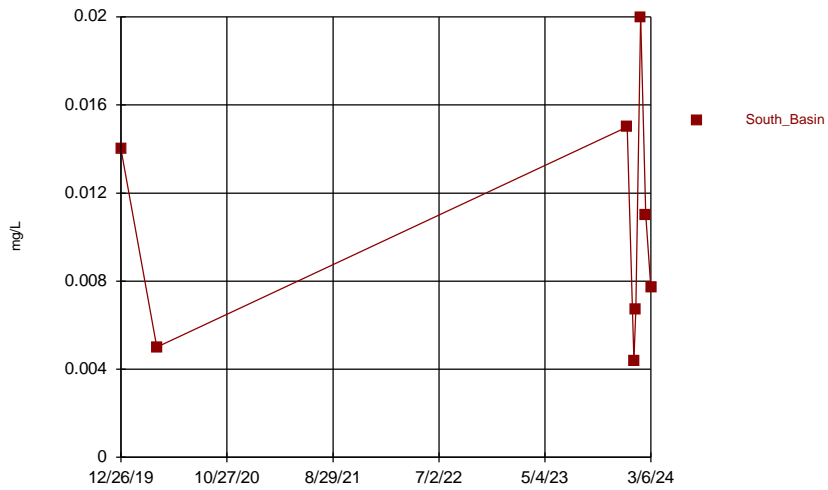
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### Time Series



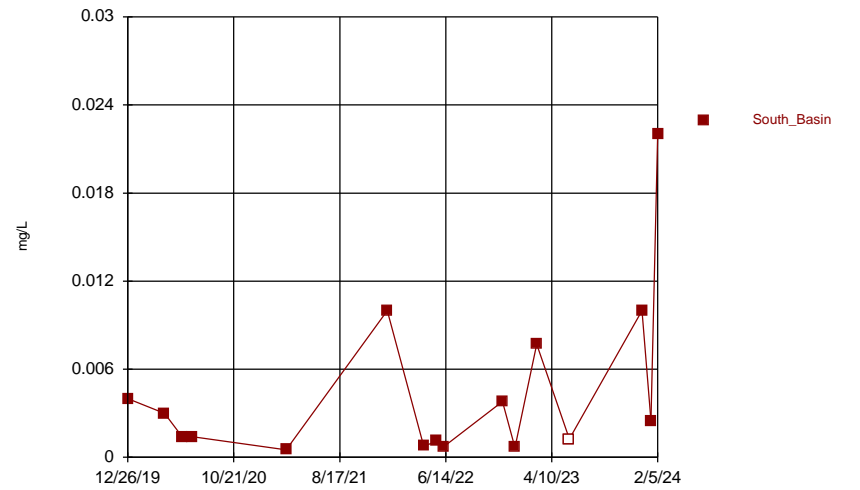
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### Time Series



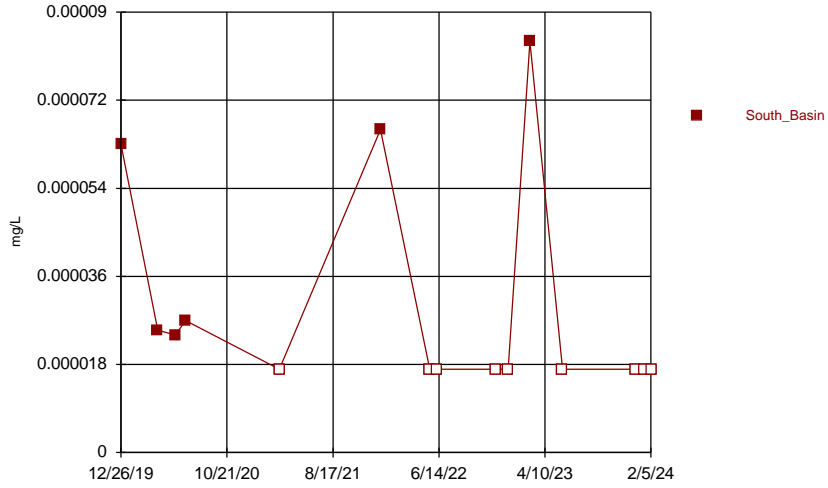
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### Time Series



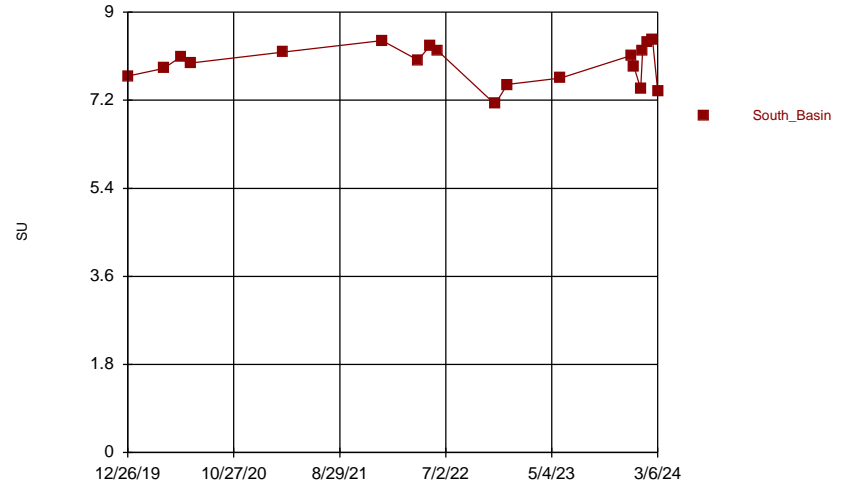
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### Time Series



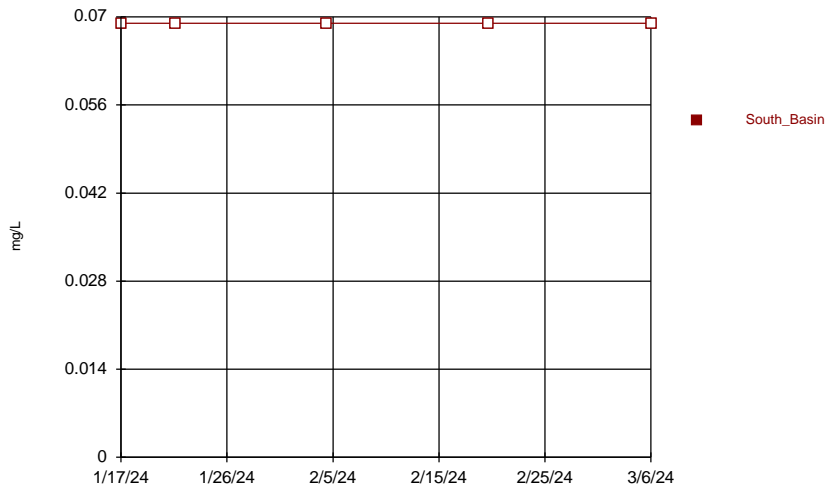
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### Time Series



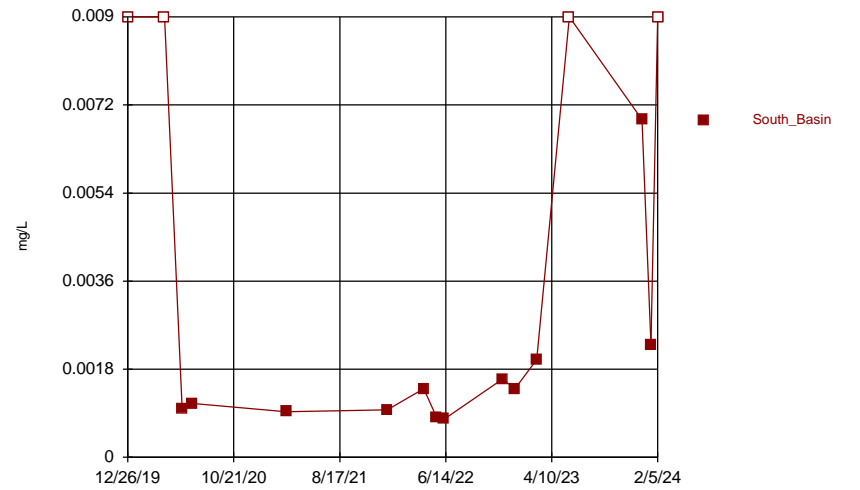
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### Time Series



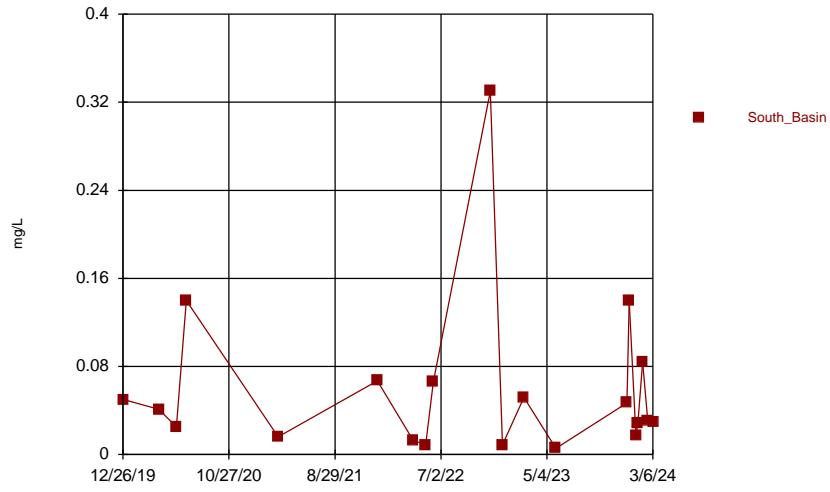
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### Time Series



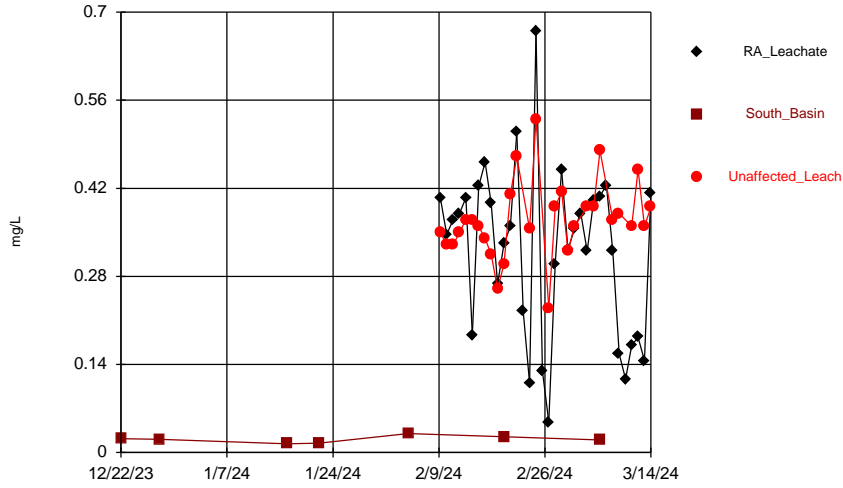
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### Time Series



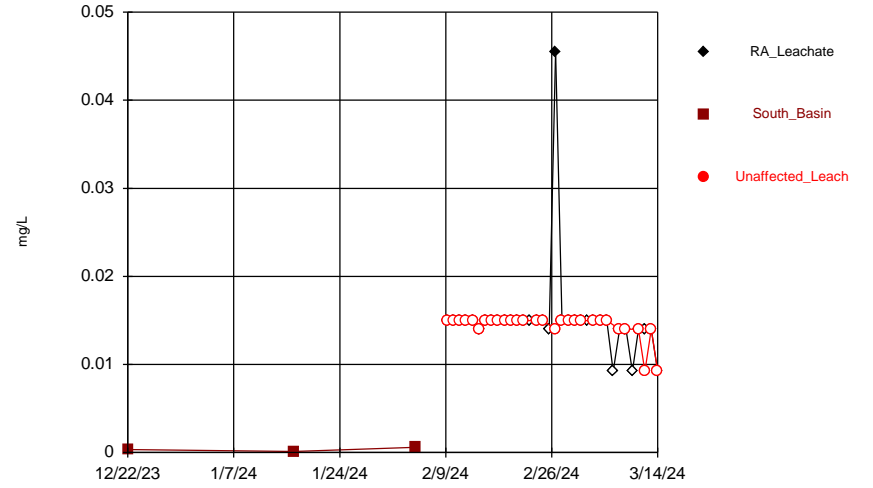
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### Time Series



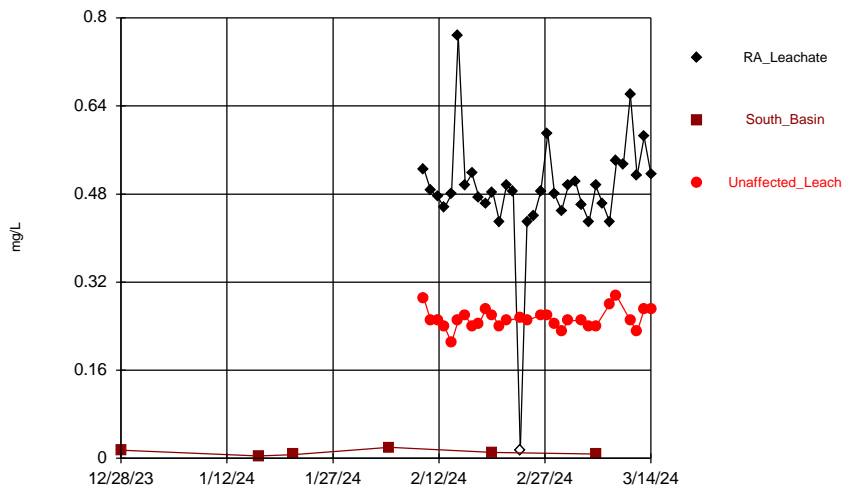
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### Time Series



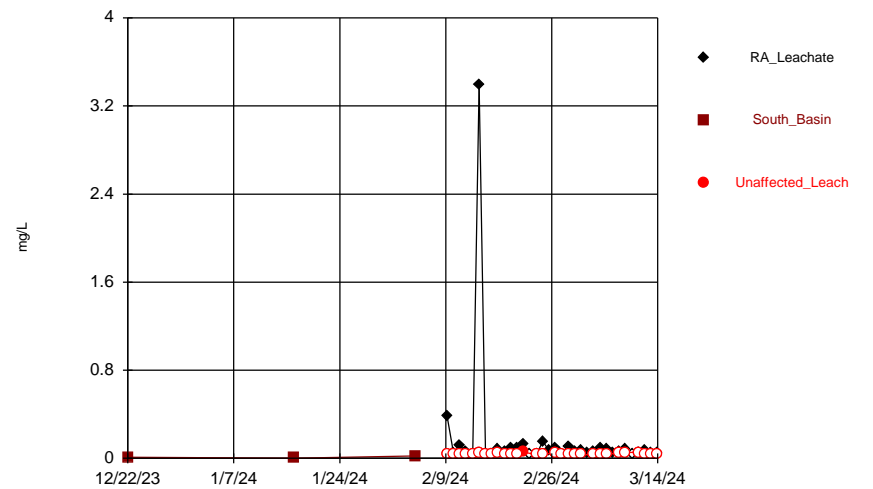
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### Time Series



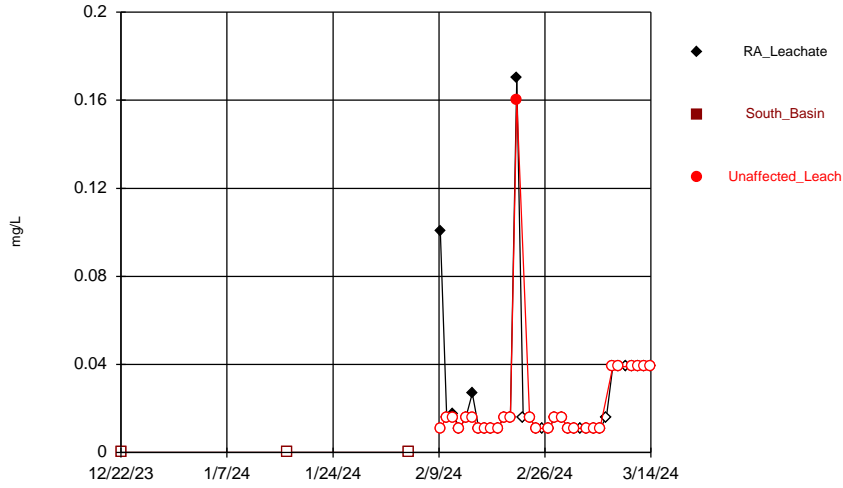
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### Time Series



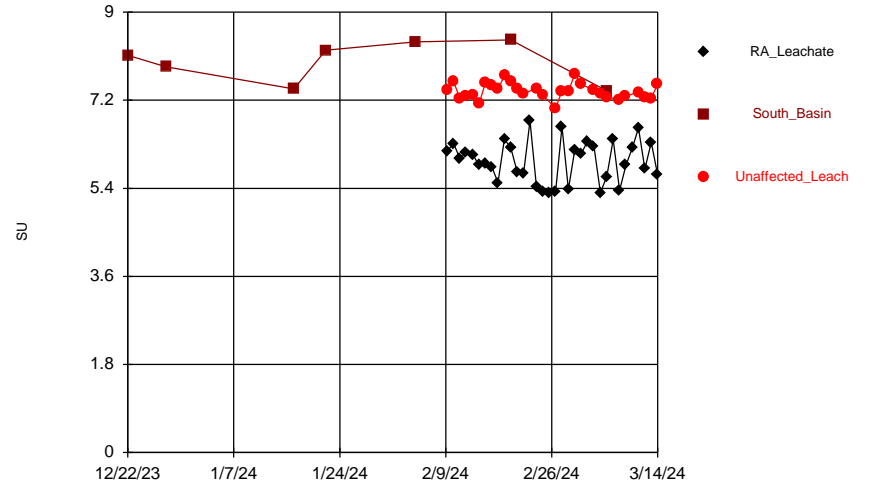
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### Time Series



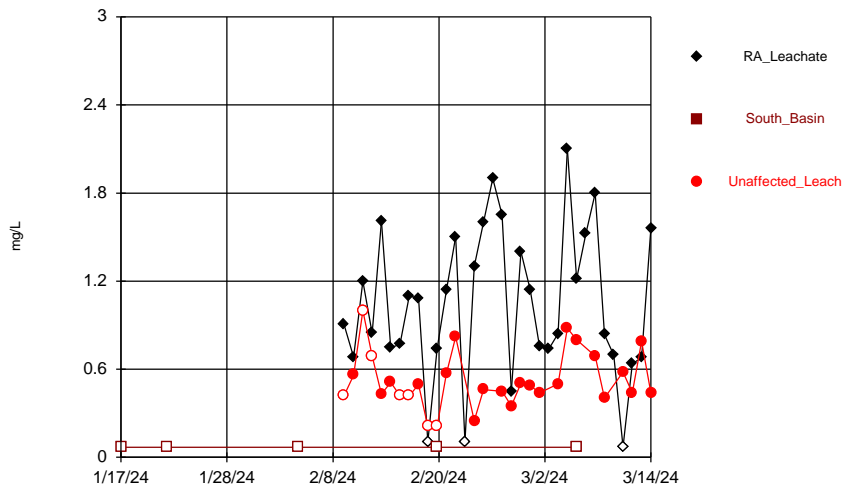
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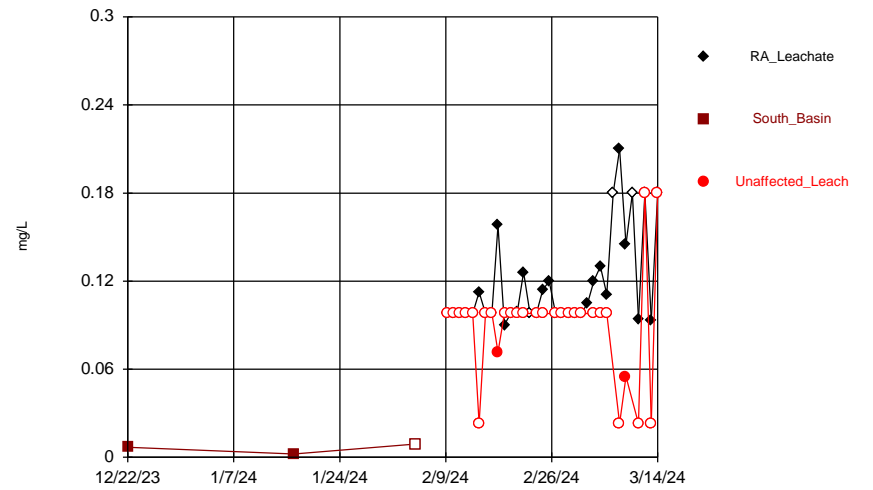
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### Time Series



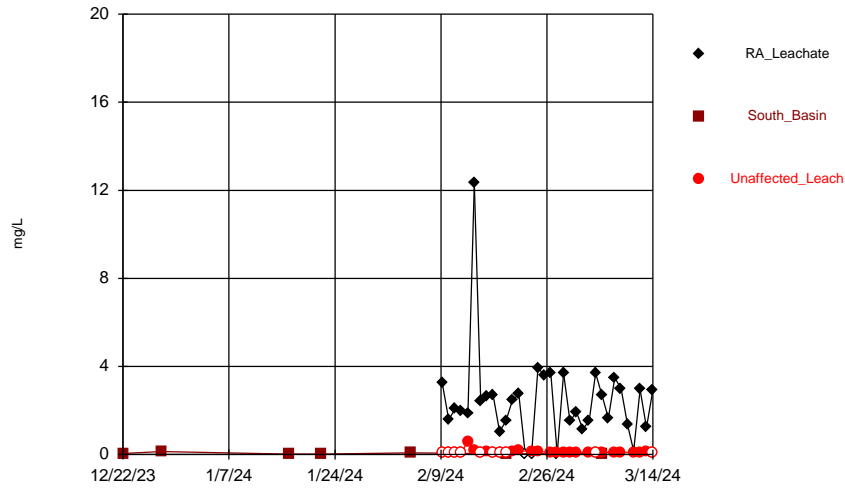
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Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Time Series



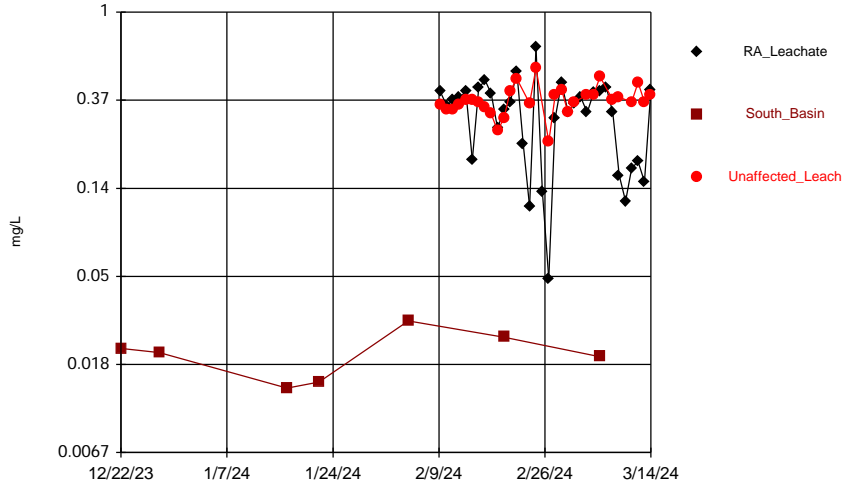
Constituent: Selenium Analysis Run 4/7/2024 10:52 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Time Series



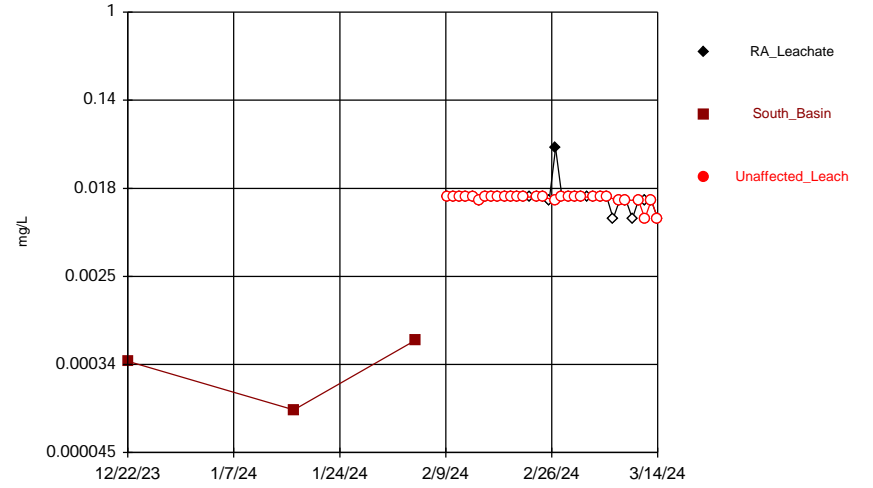
Constituent: Zinc Analysis Run 4/7/2024 10:52 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Time Series



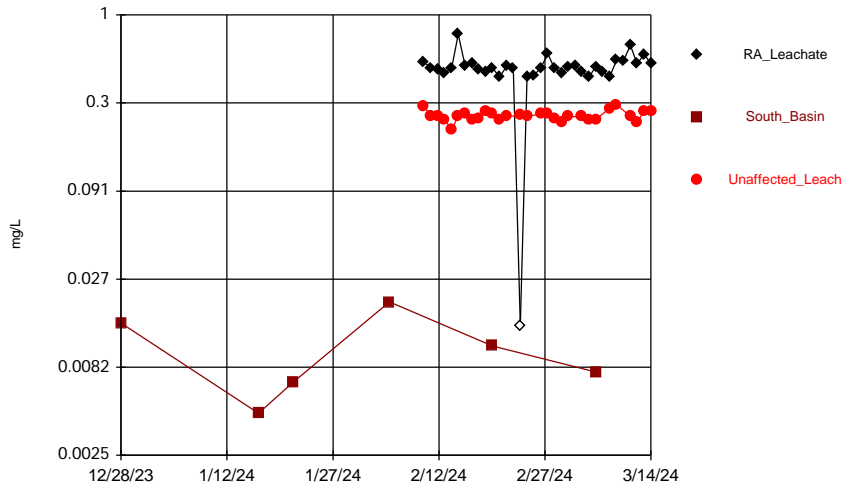
Constituent: Arsenic Analysis Run 4/7/2024 10:55 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Time Series



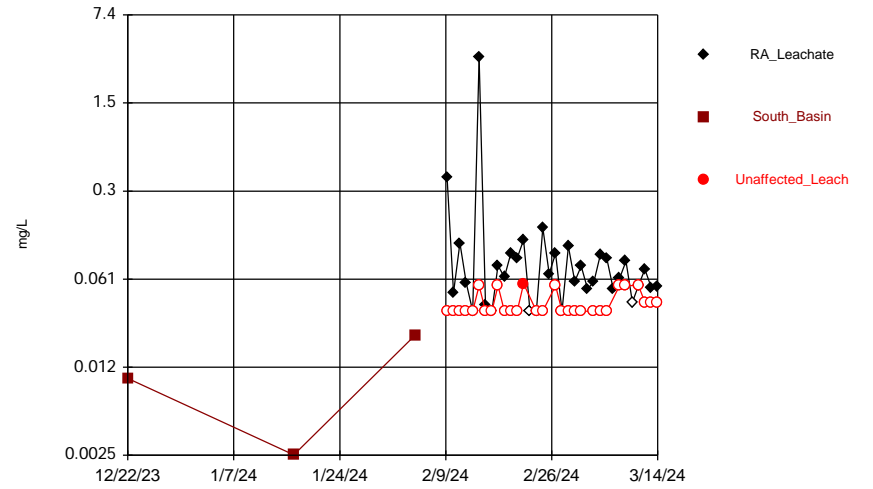
Constituent: Cadmium Analysis Run 4/7/2024 10:55 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Time Series



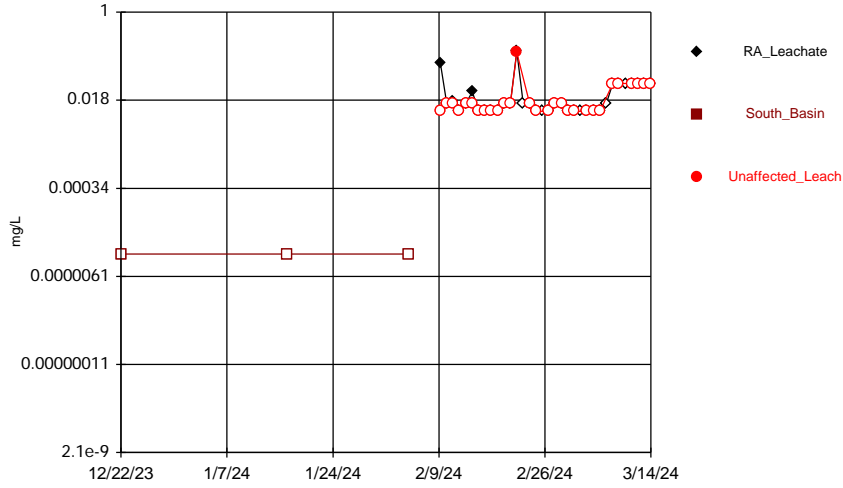
Constituent: Chromium Analysis Run 4/7/2024 10:55 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Time Series

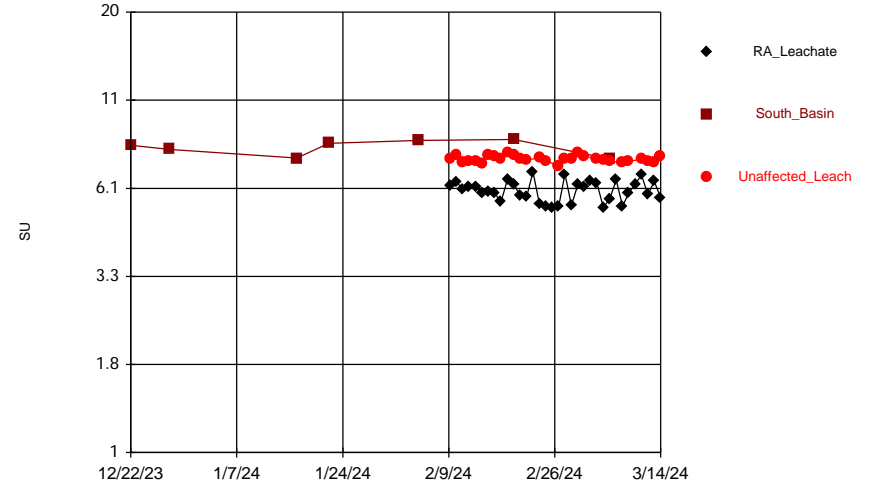


Constituent: Lead Analysis Run 4/7/2024 10:55 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

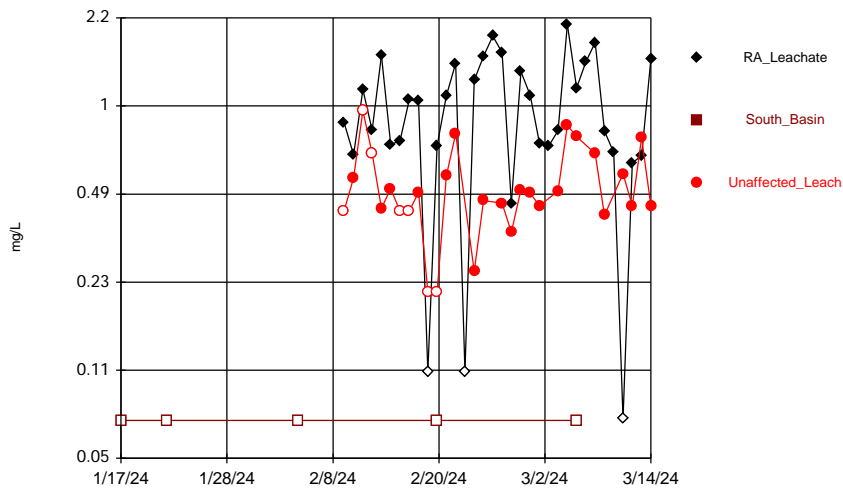
### Time Series



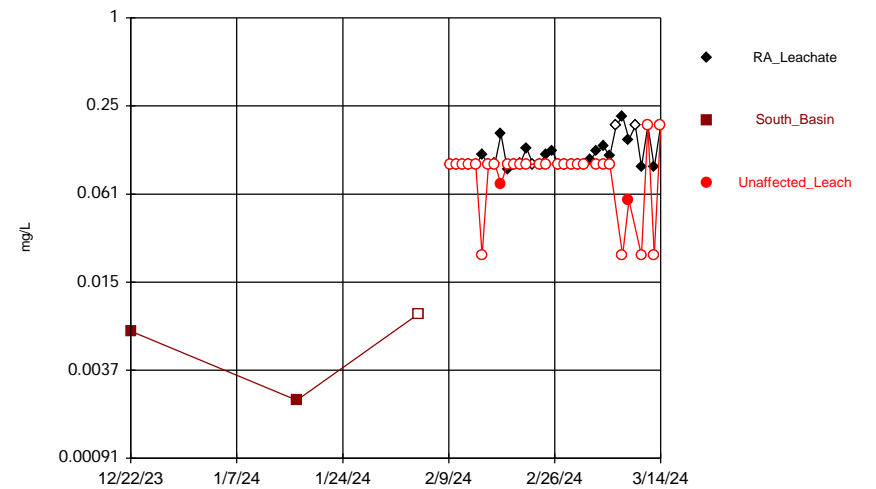
### Time Series



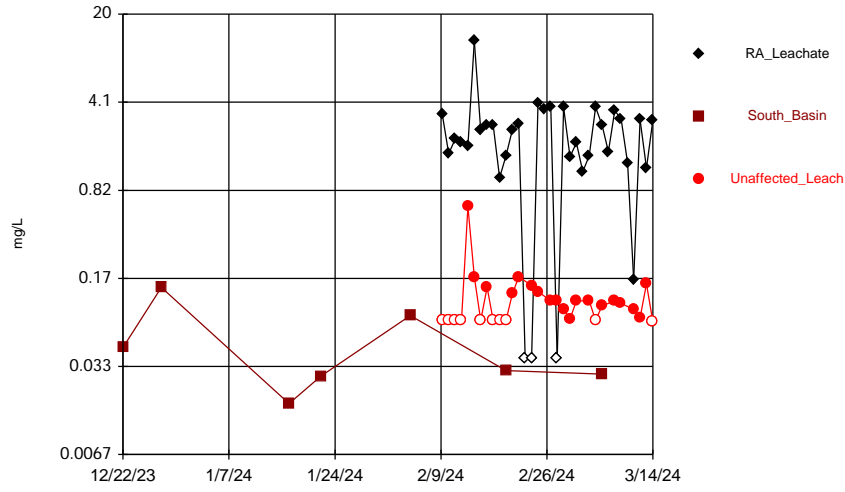
### Time Series



### Time Series



### Time Series

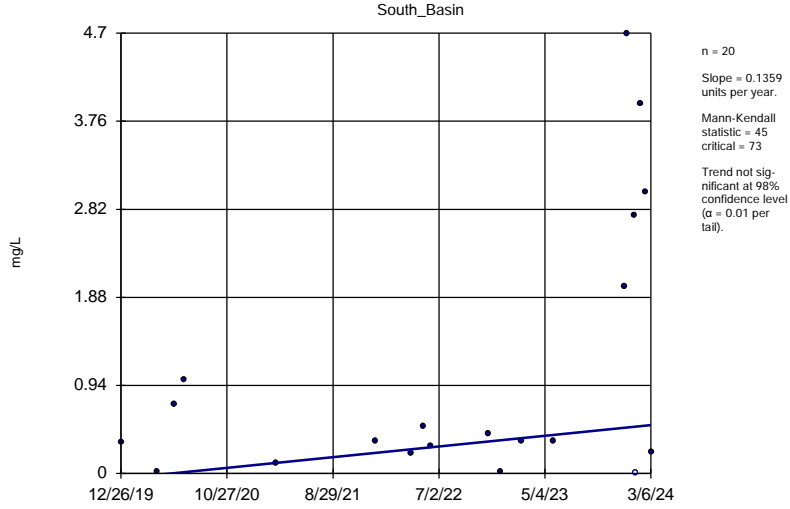


Constituent: Zinc Analysis Run 4/7/2024 10:55 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

## Attachment 2

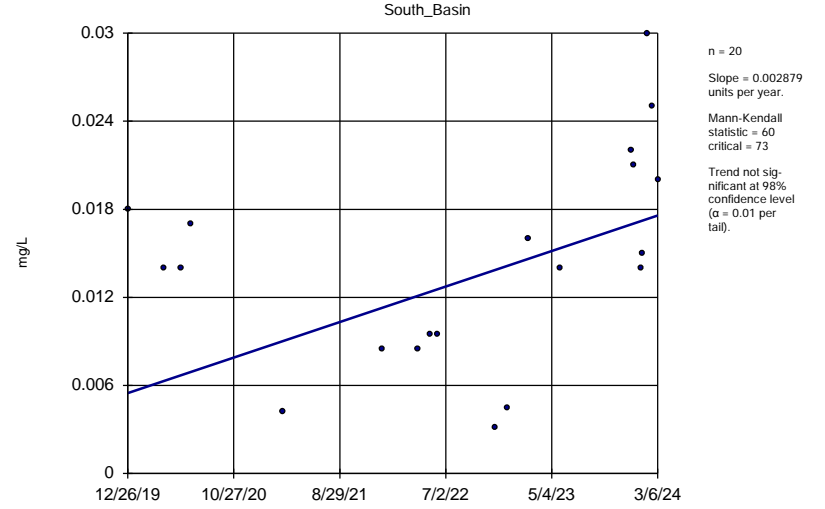
**Attachment 5**  
**MANN-KENDALL TREND ANALYSES**

### Sen's Slope Estimator



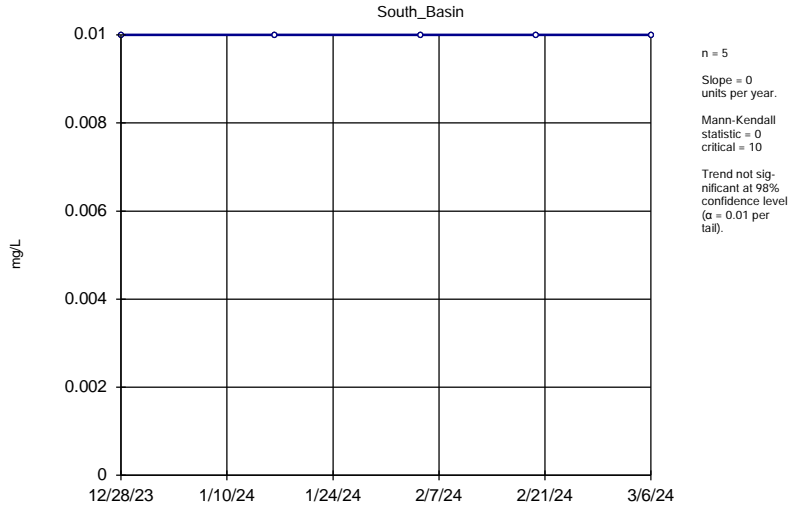
Constituent: Ammonia [as N] Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator



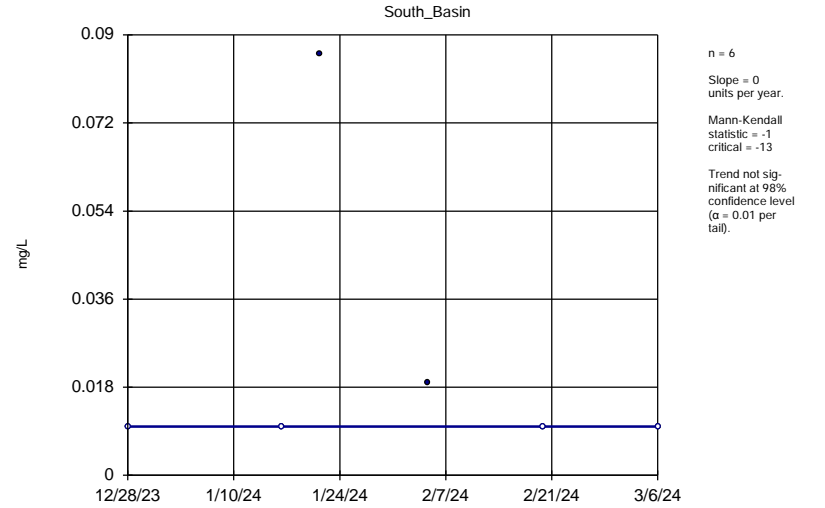
Constituent: Arsenic Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator



Constituent: a-Terpineol Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

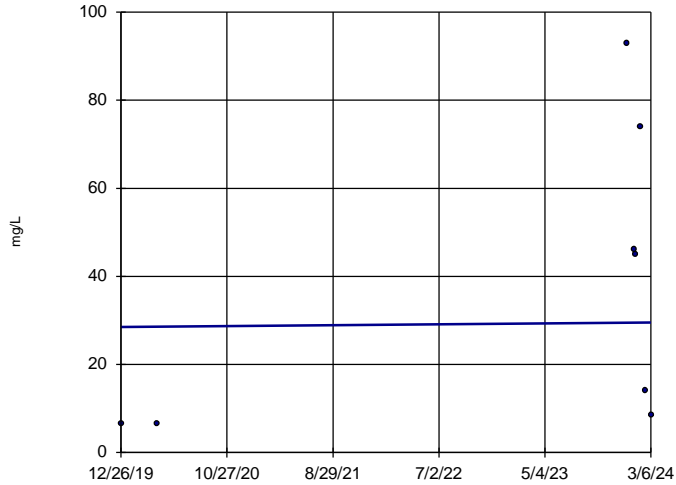
### Sen's Slope Estimator



Constituent: Benzoic Acid Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin

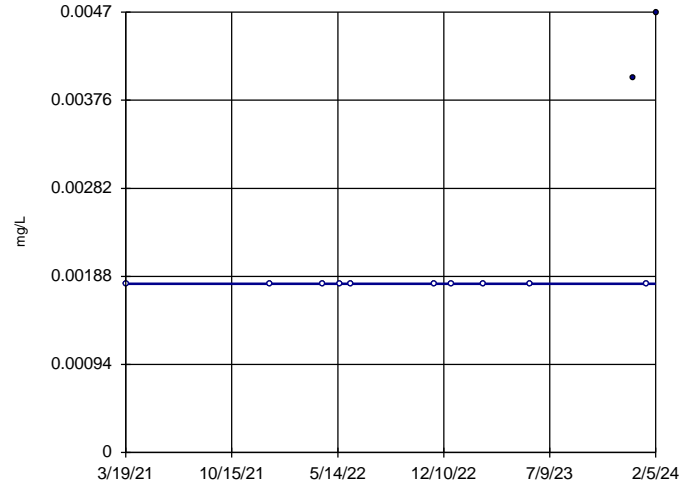


n = 8  
 Slope = 0.2502  
 units per year.  
 Mann-Kendall  
 statistic = 1  
 critical = 20  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: BOD Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
 Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin

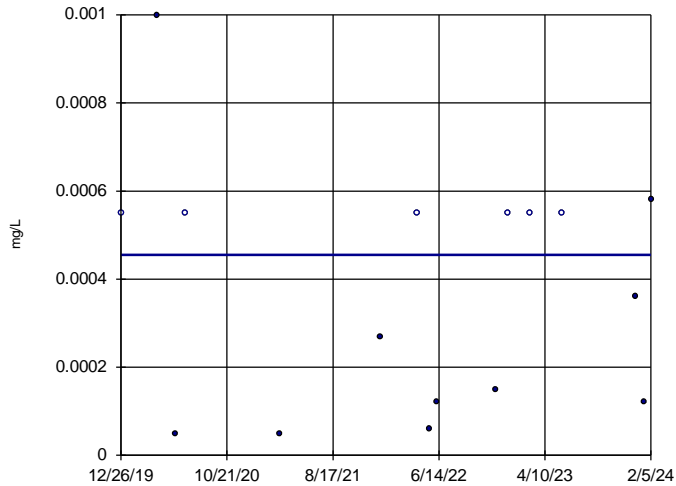


n = 12  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 19  
 critical = 35  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: BTEX Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
 Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin

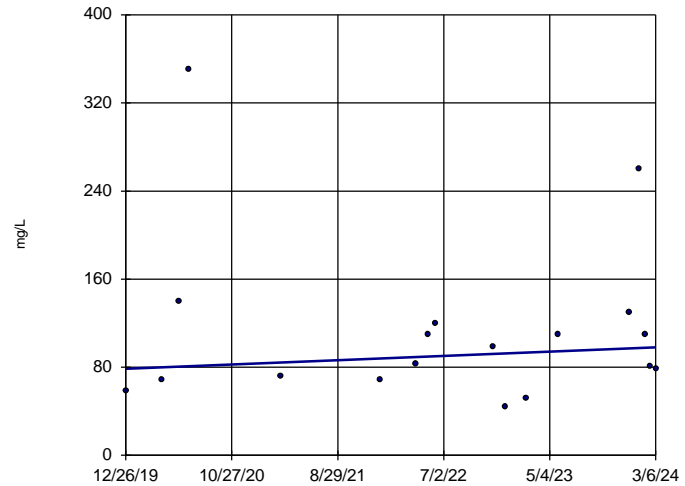


n = 16  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 10  
 critical = 53  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: Cadmium Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
 Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin

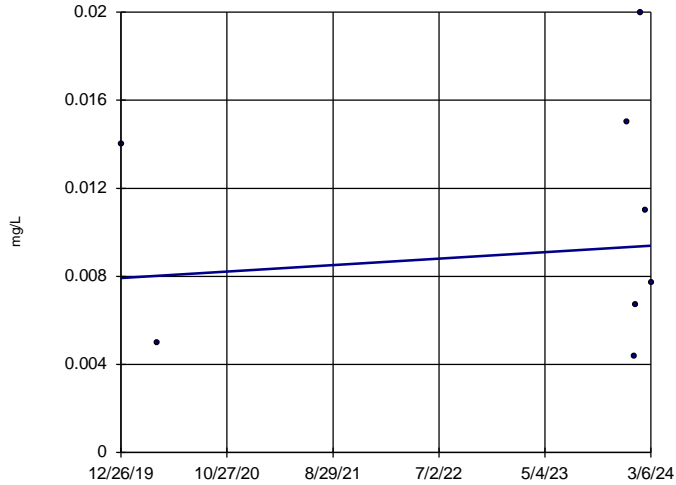


n = 18  
 Slope = 4.58  
 units per year.  
 Mann-Kendall  
 statistic = 15  
 critical = 63  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: Chloride Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
 Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin

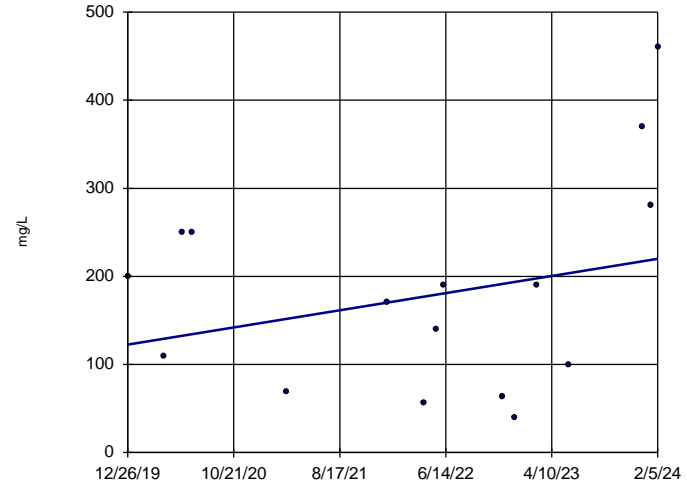


n = 8  
 Slope = 0.0003489  
 units per year.  
 Mann-Kendall  
 statistic = 2  
 critical = 20  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: Chromium Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
 Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin

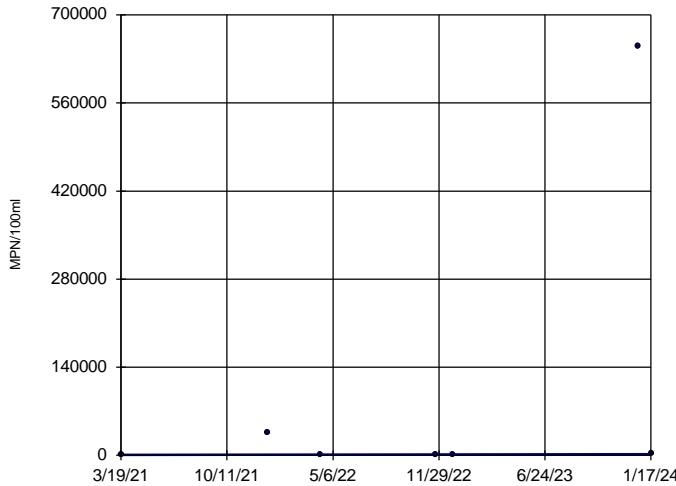


n = 16  
 Slope = 23.68  
 units per year.  
 Mann-Kendall  
 statistic = 16  
 critical = 53  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: COD Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
 Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin

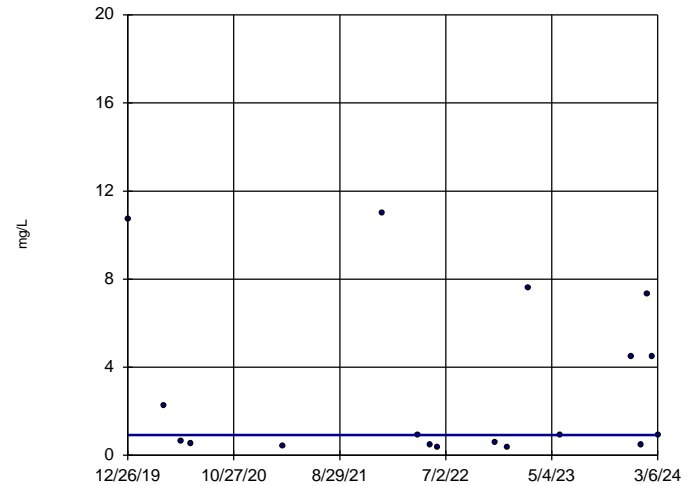


n = 7  
 Slope = 365  
 units per year.  
 Mann-Kendall  
 statistic = 5  
 critical = 17  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: EColi Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
 Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

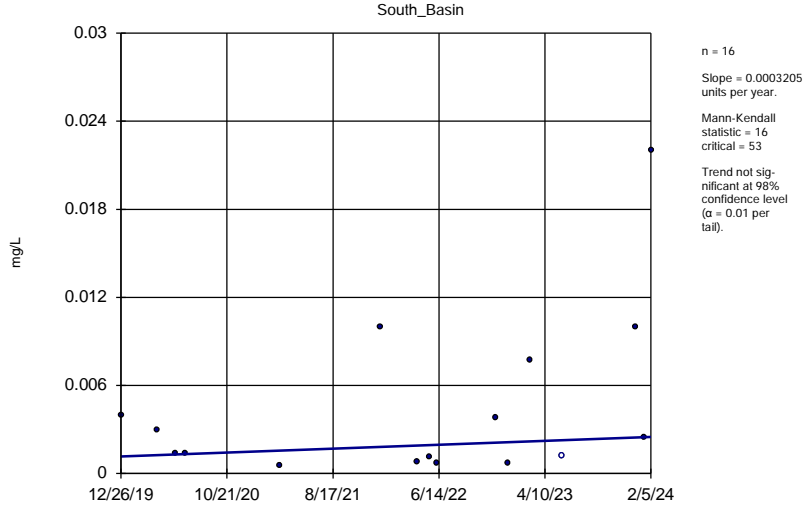
South\_Basin



n = 18  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -2  
 critical = -63  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

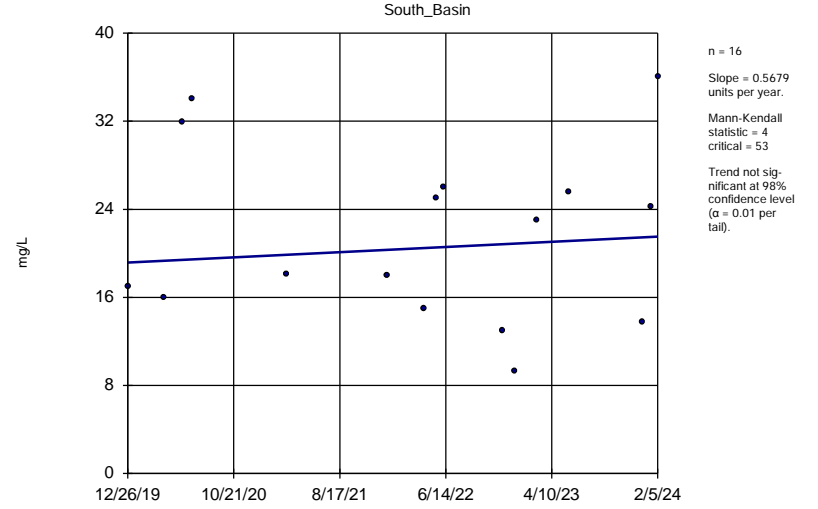
Constituent: Iron Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
 Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator



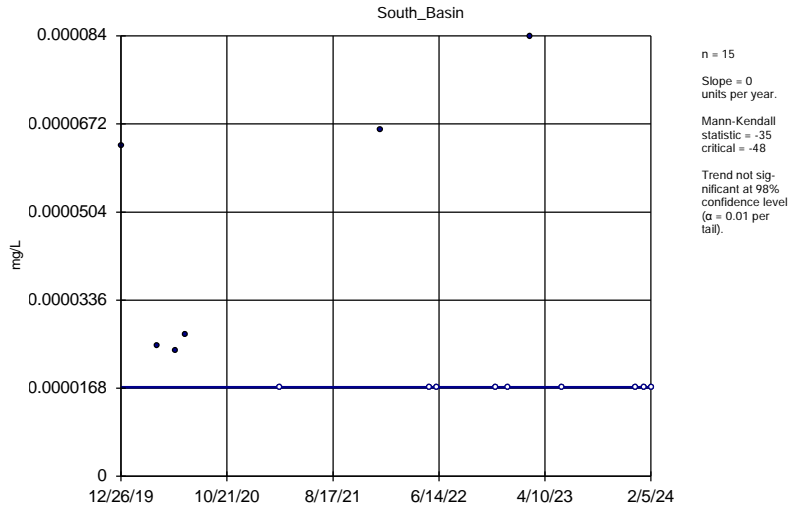
Constituent: Lead Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator



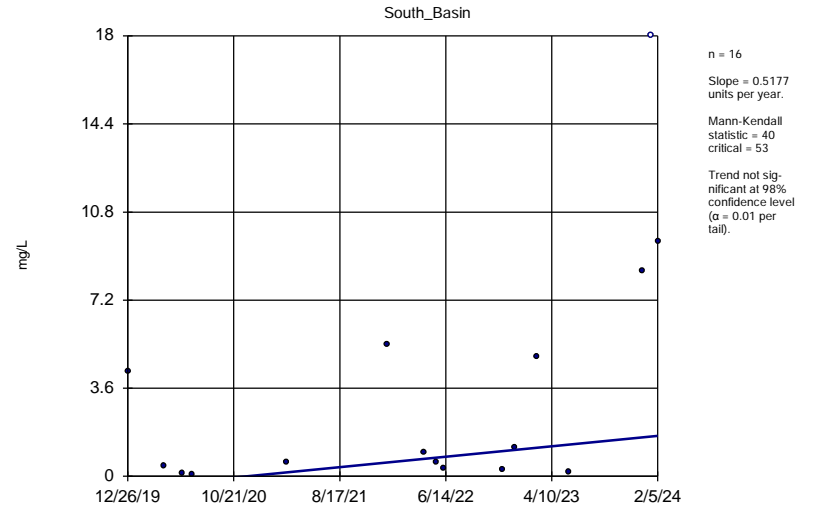
Constituent: Magnesium Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator



Constituent: Mercury Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

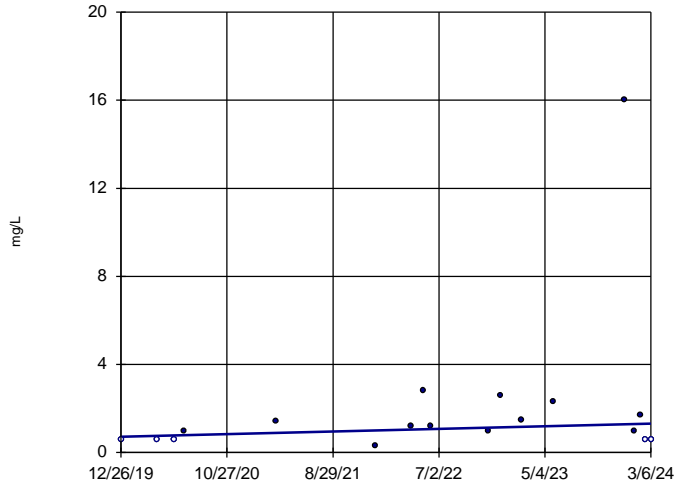
### Sen's Slope Estimator



Constituent: NO2+NO3 [as N] Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin

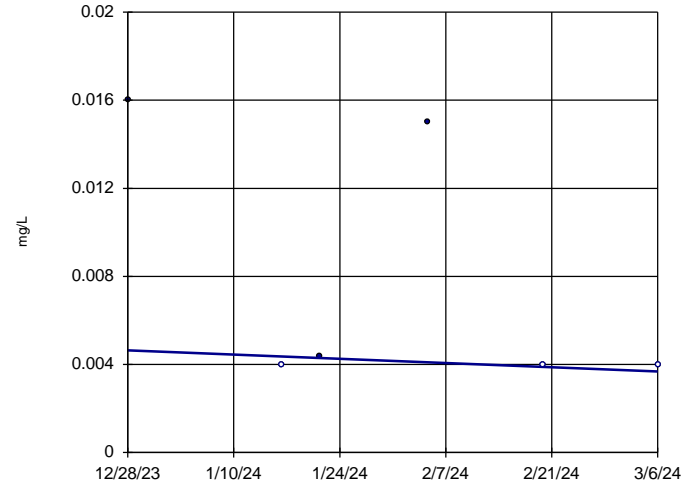


n = 18  
Slope = 0.14  
units per year.  
Mann-Kendall  
statistic = 33  
critical = 63  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: O&G Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin

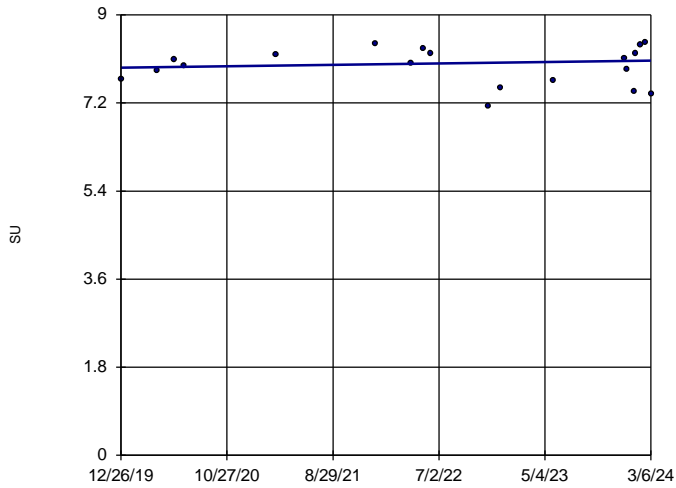


n = 6  
Slope = -0.005034  
units per year.  
Mann-Kendall  
statistic = -6  
critical = -13  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: p-Cresol Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin

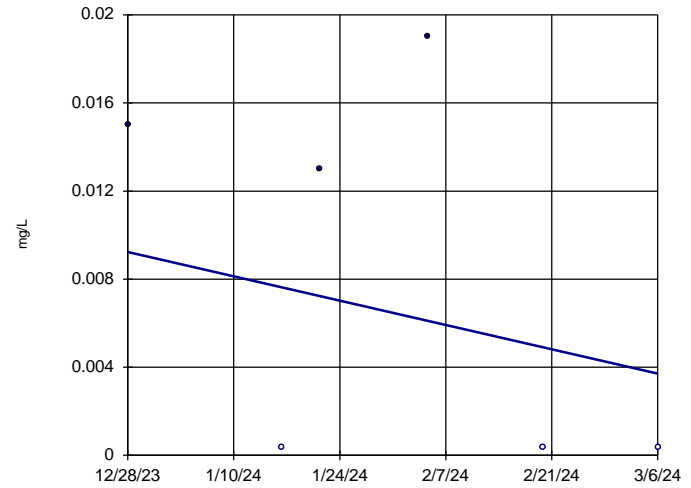


n = 19  
Slope = 0.03338  
units per year.  
Mann-Kendall  
statistic = 13  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: pH Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin



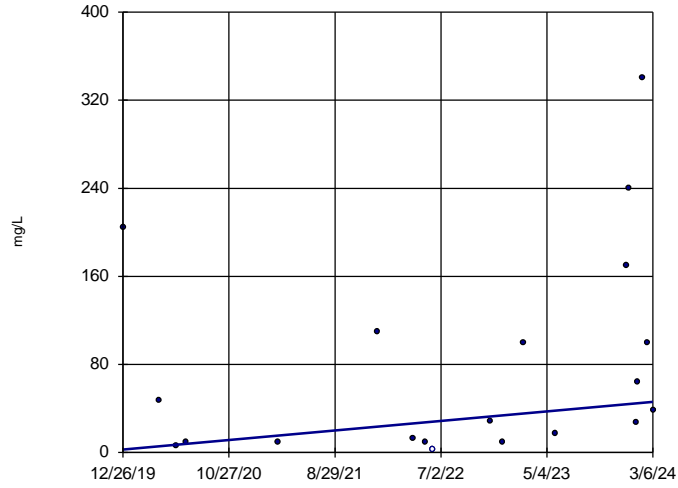
n = 6  
Slope = -0.0292  
units per year.  
Mann-Kendall  
statistic = -4  
critical = -13  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Phenol Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater



### Sen's Slope Estimator

South\_Basin

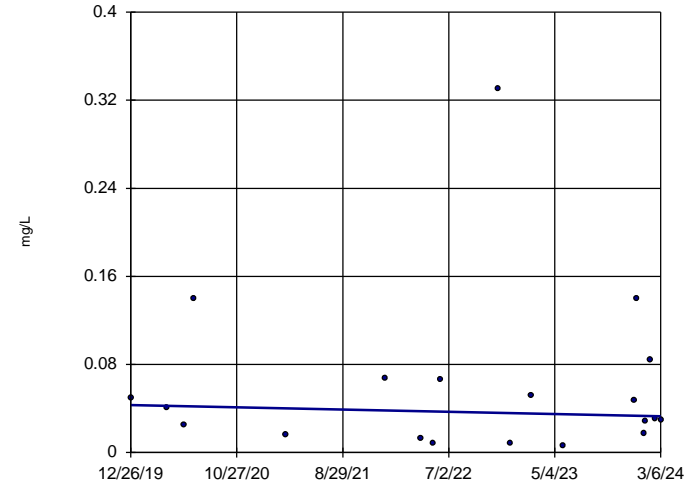


n = 20  
Slope = 10.27  
units per year.  
Mann-Kendall  
statistic = 56  
critical = 73  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: TSS Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

### Sen's Slope Estimator

South\_Basin



n = 20  
Slope = -0.002418  
units per year.  
Mann-Kendall  
statistic = -7  
critical = -73  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Zinc Analysis Run 4/7/2024 11:21 AM View: South Basin Parameters  
Chiquita Canyon Landfill Data: RA Leachate\_SB Stormwater

# Trend Test

Chiquita Canyon Landfill    Data: RA Leachate\_SB Stormwater    Printed 4/7/2024, 11:21 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Ammonia [as N] (mg/L)	South_Basin	0.1359	45	73	No	20	5	n/a	n/a	0.02	NP
Arsenic (mg/L)	South_Basin	0.002879	60	73	No	20	0	n/a	n/a	0.02	NP
a-Terpineol (mg/L)	South_Basin	0	0	10	No	5	100	n/a	n/a	0.02	NP
Benzoic Acid (mg/L)	South_Basin	0	-1	-13	No	6	66.67	n/a	n/a	0.02	NP
BOD (mg/L)	South_Basin	0.2502	1	20	No	8	0	n/a	n/a	0.02	NP
BTEX (mg/L)	South_Basin	0	19	35	No	12	83.33	n/a	n/a	0.02	NP
Cadmium (mg/L)	South_Basin	0	10	53	No	16	37.5	n/a	n/a	0.02	NP
Chloride (mg/L)	South_Basin	4.58	15	63	No	18	0	n/a	n/a	0.02	NP
Chromium (mg/L)	South_Basin	0.000...	2	20	No	8	0	n/a	n/a	0.02	NP
COD (mg/L)	South_Basin	23.68	16	53	No	16	0	n/a	n/a	0.02	NP
EColi (MPN/100ml)	South_Basin	365	5	17	No	7	0	n/a	n/a	0.02	NP
Iron (mg/L)	South_Basin	0	-2	-63	No	18	0	n/a	n/a	0.02	NP
Lead (mg/L)	South_Basin	0.000...	16	53	No	16	6.25	n/a	n/a	0.02	NP
Magnesium (mg/L)	South_Basin	0.5679	4	53	No	16	0	n/a	n/a	0.02	NP
Mercury (mg/L)	South_Basin	0	-35	-48	No	15	60	n/a	n/a	0.02	NP
NO2+NO3 [as N] (mg/L)	South_Basin	0.5177	40	53	No	16	6.25	n/a	n/a	0.02	NP
O&G (mg/L)	South_Basin	0.14	33	63	No	18	27.78	n/a	n/a	0.02	NP
p-Cresol (mg/L)	South_Basin	-0.00...	-6	-13	No	6	50	n/a	n/a	0.02	NP
pH (SU)	South_Basin	0.03338	13	68	No	19	0	n/a	n/a	0.02	NP
Phenol (mg/L)	South_Basin	-0.0292	-4	-13	No	6	50	n/a	n/a	0.02	NP
Phosphorus [as P] (mg/L)	South_Basin	-0.00...	-5	-53	No	16	0	n/a	n/a	0.02	NP
Pyridine (mg/L)	South_Basin	0	0	10	No	5	100	n/a	n/a	0.02	NP
Selenium (mg/L)	South_Basin	0.000...	27	53	No	16	25	n/a	n/a	0.02	NP
Total Coliform (MPN/100ml)	South_Basin	-4864	-13	-35	No	12	0	n/a	n/a	0.02	NP
TSS (mg/L)	South_Basin	10.27	56	73	No	20	5	n/a	n/a	0.02	NP
Zinc (mg/L)	South_Basin	-0.00...	-7	-73	No	20	0	n/a	n/a	0.02	NP

# Attachment 3

**Attachment 1**  
**STORMWATER MONITORING DATA USED FOR ANALYSIS**

**TABLE G-1**

**STORMWATER MONITORING RESULTS  
CHIQUITA CANYON LANDFILL**

Analyte	Units	WDR Benchmark	12/26/19 (South)	4/8/20 (South)	5/28/20 (South)	6/26/20 (South)
Acetone	ug/l		ND	12 *		
4-Methyl-2-pentanone	ug/l		ND	0.71tr *		
Ammonia as N	mg/l	19	0.33	0.018tr	0.74	1.0
Antimony, Total	mg/l	0.636	0.010tr	0.010tr		
Arsenic, Total	mg/l	0.16854	0.018	0.014	0.014	0.017
Beryllium	mg/l	0.13	ND	ND		
Biochemical Oxygen Demand	mg/l	30	6.5	6.5		
Cadmium, Total	mg/l	0.0159	ND	0.0010tr	0.000050tr	ND
Chemical Oxygen Demand	mg/l	120	200	110	250	250
Chloride, Total	mg/l	860	59	69	140	350
Chromium, Total	mg/l		0.014	0.0050tr		
Copper, Total	mg/l	0.0636	0.031	0.012		
Iron, Total	mg/l	1.0	12	2.4	0.64	0.53
Lead, Total	mg/l	0.0816	0.0040	0.0030tr	0.0014	0.0014
Magnesium, Total	mg/l		17	16	31.9	34.0
Mercury, Total	mg/l	0.0024	0.000063tr	0.000025tr	0.000024tr	0.000027tr
Nickel, Total	mg/l	1.417	0.016	0.0080tr		
NO2+NO3 as N	mg/l	0.68	4.3	0.44	0.13tr	0.081tr
Oil & Grease (HEM)	mg/l	15	ND	ND	ND	1.0tr
pH	Units	6.0-9.0	7.67	7.84	8.09	7.96
Phosphorus as P, Total	mg/l	2	0.49	0.22	0.13	0.13
Selenium, Total	mg/l	0.2385	ND	ND	0.0010	0.0011tr
Specific Conductance (EC)	umhos/cm		890	1200		
Sulfate as SO4	mg/l		250	430		
Thallium, Total	mg/l		ND	ND		
Total Dissolved Solids	mg/l		760	950		
Total Suspended Solids	mg/l	100	220	55	6	9
Zinc, Total	mg/l	0.117	0.050	0.041tr	0.025	0.14

Notes: tr = trace concentration

\* Acetonitrile and carbon disulfide detected in the trip blank

**TABLE G-1****STORMWATER MONITORING RESULTS  
CHIQUITA CANYON LANDFILL**

Analyte	Units	WDR Benchmark	3/19/21 (South)
BTEX	ug/l		ND
Ammonia as N	mg/l	19	0.11
Arsenic, Total	mg/l	0.16854	0.0042
Cadmium, Total	mg/l	0.0159	0.000049tr
Chemical Oxygen Demand	mg/l	120	69
Chloride, Total	mg/l	860	72
Iron, Total	mg/l	1.0	0.40
Lead, Total	mg/l	0.0816	0.00052
Magnesium, Total	mg/l		18.1
Mercury, Total	mg/l	0.0024	ND
NO <sub>2</sub> +NO <sub>3</sub> as N	mg/l	0.68	0.6
Oil & Grease (HEM)	mg/l	15	1.4
pH	Units	6.0-9.0	8.18
Phosphorus, Total	mg/l	2	0.085
Selenium, Total	mg/l	0.2385	0.00093
Silver, Total	mg/l	0.0318	0.000051tr
Total Suspended Solids	mg/l	100	9
Zinc, Total	mg/l	0.117	0.016

Notes: tr = trace concentration

\* Acetonitrile and carbon disulfide detected in the trip blank  
Results exceeding benchmark values are highlighted.

**TABLE G-1**

**STORMWATER MONITORING RESULTS  
CHIQUITA CANYON LANDFILL**

Analyte	Units	WDR Benchmark	12/30/21 (South)	4/13/22 (South)	5/19/22 (South)	6/10/22 (South)
BTEX	ug/l		ND	ND	ND	ND
Ammonia as N	mg/l	19	0.35	0.21	0.51	0.29
Arsenic, Total	mg/l	0.16854	0.0085	0.0085	0.0095	0.0095
Cadmium, Total	mg/l	0.0159	0.00027	ND	0.000059tr	0.00012tr
Chemical Oxygen Demand	mg/l	120	170	56	140	190
Chloride, Total	mg/l	860	69	83	110	120
Iron, Total	mg/l	1.0	11	0.93	0.48	0.36
Lead, Total	mg/l	0.0816	0.010	0.00076	0.0011	0.00075
Magnesium, Total	mg/l		18	15	25	26
Mercury, Total	mg/l	0.0024	0.000066	0.000018tr	ND	ND
NO <sub>2</sub> +NO <sub>3</sub> as N	mg/l	0.68	5.4	0.96	0.56	0.32
Oil & Grease (HEM)	mg/l	15	ND	1.2tr	2.8tr	1.2tr
pH	Units	6.0-9.0	8.42	8.02	8.32	8.2
Phosphorus, Total	mg/l	2	0.80	0.063	0.19	0.098
Selenium, Total	mg/l	0.2385	0.00097	0.0014	0.00082	0.00078
Silver, Total	mg/l	0.0318	ND	ND	ND	ND
Total Suspended Solids	mg/l	100	110	13	10	ND
Zinc, Total	mg/l	0.117	0.067	0.013	0.0087tr	0.066

Notes: tr = trace concentration

\* Acetonitrile and carbon disulfide detected in the trip blank

**TABLE G-1**

**STORMWATER MONITORING RESULTS  
CHIQUITA CANYON LANDFILL**

Analyte	Units	WDR Benchmark	11/22/22 (South)	12/27/22 (South)	2/27/23 (South)	5/30/23 (South)
BTEX	ug/l		ND	ND	ND	ND
Ammonia as N	mg/l	19	0.42	0.022tr	0.35	0.35
Arsenic, Total	mg/l	0.16854	0.0031	0.0045	0.016	0.014tr
Cadmium, Total	mg/l	0.0159	0.00015tr	ND	ND	ND
Chemical Oxygen Demand	mg/l	120	63	40	190	100
Chloride, Total	mg/l	860	99	44	52	110
Iron, Total	mg/l	1.0	0.58	0.36	7.6	0.93
Lead, Total	mg/l	0.0816	0.0038	0.00067tr	0.0077	ND
Magnesium, Total	mg/l		13	9.3	23	25.6
Mercury, Total	mg/l	0.0024	ND	ND	0.000084tr	ND
NO2+NO3 as N	mg/l	0.68	0.3	1.2	4.9	0.16tr
Oil & Grease (HEM)	mg/l	15	1.0tr	2.6tr	1.5tr	2.3tr
pH	Units	6.0-9.0	7.12	7.52	nm	7.65
Phosphorus, Total	mg/l	2	0.096	0.14	1.1	0.080
Selenium, Total	mg/l	0.2385	0.0016	0.0014tr	0.002	ND
Silver, Total	mg/l	0.0318	ND	ND	ND	ND
Total Suspended Solids	mg/l	100	28	10	100	17
Zinc, Total	mg/l	0.117	0.33	0.0088tr	0.052	0.0056tr

Notes: tr = trace concentration nm = not measured.

\* Acetonitrile and carbon disulfide detected in the trip blank

**TABLE G-1**

**STORMWATER MONITORING RESULTS  
CHIQUITA CANYON LANDFILL**

Analyte	Units	WDR Benchmark	12/22/23 (South)	1/17/24 (South)	2/5/24 (South)
BTEX	ug/l		4.0tr	ND	4.7
Ammonia as N	mg/l	19	2.0	2.8	3.1
Arsenic, Total	mg/l	0.16854	0.022	0.014	0.031
Cadmium, Total	mg/l	0.0159	0.00036tr	0.00012tr	0.00058tr
Chemical Oxygen Demand	mg/l	120	370	280	460
Chloride, Total	mg/l	860	130	260	110
Iron, Total	mg/l	1.0	4.5	0.49	7.3
Lead, Total	mg/l	0.0816	0.010	0.0025	0.022
Magnesium, Total	mg/l		13.8	24.2	36
Mercury, Total	mg/l	0.0024	ND	ND	ND
NO2+NO3 as N	mg/l	0.68	8.4	ND	9.59
Oil & Grease (HEM)	mg/l	15	16	1.0tr	1.7tr
pH	Units	6.0-9.0	8.12	7.43	8.39
Phosphorus, Total	mg/l	2	0.51	0.0041	2.3
Selenium, Total	mg/l	0.2385	0.0069	0.0023	ND
Silver, Total	mg/l	0.0318	0.00017tr	0.000069tr	ND
Total Suspended Solids	mg/l	100	170	31	330
Zinc, Total	mg/l	0.117	0.047	0.014	0.087

Notes: tr = trace concentration nm = not measured.

\* Acetonitrile and carbon disulfide detected in the trip blank

Sample Point	Date	Time	pH	TSS	BOD	Ammonia (as N)	a-Terpineol	Benzoic Acid	Napthalene	p-Cresol	Phenol	Pyridine	Arsenic	Chromium	Zinc
SOUTH	12/28/2023	9:15	7.88	240	93.00	4.7	ND	ND	ND	0.016	0.015	-	0.021	0.015	0.14
SOUTH	1/17/2024	13:45	7.43	21	46.00	2.7	ND	ND	ND	ND	ND	ND	0.014	0.0044	0.02
SOUTH	1/22/2024	10:34	8.22	64	45.00	ND	-	0.086	ND	0.0044	0.013	ND	0.015	0.0067	0.028
SOUTH	2/5/2024	7:45	8.39	360	74.0	4.80	ND	0.019	ND	0.015	0.019	ND	0.029	0.02	0.081
SOUTH	2/20/2024	10:28	8.43	89	14	3.0	ND	ND	ND	ND	ND	ND	0.025	0.011	0.031
SOUTH	3/6/2024	15:40	7.39	34	8.6	0.23	ND	ND	ND	ND	ND	ND	0.02	0.0077	0.029

Notes

Constituents are in milligrams per liter (mg/L) except for pH (standard units [SU])

N/A = Not Applicable

-- = Not Available

ND = Non-Detect

# Attachment 4

**Attachment 2**  
**UNAFFECTED LANDFILL LEACHATE DATA SUMMARY**

# Data Screening

Analysis Run 3/21/2024 1:49 PM

Chiquita Canyon Landfill Client: Waste Connections Data: CCL LCM Leachate Data (Sanitas)

A listing of detects for 22 constituents in 18 wells on 29 dates:

2-Butanone, 007LCM, 2/15/2024: 5.1 mg/L  
2-Butanone, 007LCM, 2/17/2024: 15 mg/L  
2-Butanone, 007LCM1, 2/10/2024: 6.1 mg/L  
2-Butanone, 007LCM114, 2/24/2024: 5.3 mg/L  
2-Butanone, 007LCM128, 3/13/2024: 13 mg/L  
2-Butanone, 007LCM136, 3/6/2024: 11 mg/L  
2-Butanone, 007LCM136, 3/12/2024: 5.1 mg/L  
2-Butanone, 007LCM145, 3/2/2024: 6.4 mg/L  
2-Butanone, 007LCM154, 3/14/2024: 5.3 mg/L  
2-Butanone, 007LCM55, 2/29/2024: 24 mg/L  
2-Butanone, 007LCM99, 2/21/2024: 22 mg/L  
2-Butanone, 007LCM99, 2/27/2024: 13 mg/L  
3-,4-Methylphenol, 007LCM, 2/11/2024: 2.7 mg/L  
3-,4-Methylphenol, 007LCM, 2/14/2024: 3.1 mg/L  
3-,4-Methylphenol, 007LCM, 2/15/2024: 3.9 mg/L  
3-,4-Methylphenol, 007LCM1, 2/10/2024: 2.2 mg/L  
3-,4-Methylphenol, 007LCM114, 2/24/2024: 2 mg/L  
3-,4-Methylphenol, 007LCM128, 2/28/2024: 2.4 mg/L  
3-,4-Methylphenol, 007LCM128, 3/13/2024: 3.5 mg/L  
3-,4-Methylphenol, 007LCM131, 2/29/2024: 3.2 mg/L  
3-,4-Methylphenol, 007LCM135, 3/1/2024: 2.8 mg/L  
3-,4-Methylphenol, 007LCM136, 3/6/2024: 3 mg/L  
3-,4-Methylphenol, 007LCM136, 3/12/2024: 3.8 mg/L  
3-,4-Methylphenol, 007LCM141, 3/8/2024: 4.3 mg/L  
3-,4-Methylphenol, 007LCM145, 3/2/2024: 3.2 mg/L  
3-,4-Methylphenol, 007LCM147, 3/9/2024: 4.6 mg/L  
3-,4-Methylphenol, 007LCM150, 3/4/2024: 2.1 mg/L  
3-,4-Methylphenol, 007LCM154, 3/9/2024: 2.8 mg/L  
3-,4-Methylphenol, 007LCM154, 3/14/2024: 3.5 mg/L  
3-,4-Methylphenol, 007LCM157, 3/5/2024: 3.7 mg/L  
3-,4-Methylphenol, 007LCM181, 3/11/2024: 3 mg/L  
3-,4-Methylphenol, 007LCM36, 2/18/2024: 3.2 mg/L  
3-,4-Methylphenol, 007LCM36, 2/21/2024: 2.2 mg/L  
3-,4-Methylphenol, 007LCM36, 2/25/2024: 3 mg/L  
3-,4-Methylphenol, 007LCM44, 2/24/2024: 2.5 mg/L  
3-,4-Methylphenol, 007LCM55, 2/22/2024: 3.4 mg/L  
3-,4-Methylphenol, 007LCM55, 2/29/2024: 2.3 mg/L  
3-,4-Methylphenol, 007LCM99, 2/21/2024: 2.2 mg/L  
3-,4-Methylphenol, 007LCM99, 2/27/2024: 3.5 mg/L  
Pyridine, 007LCM, 2/11/2024: 0.56 mg/L

# Summary Report

Constituent: 2-Butanone Analysis Run 3/21/2024 1:50 PM

Chiquita Canyon Landfill Client: Waste Connections Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34

NDs = 0%

Wells = 18

Minimum Value = 1.2

Maximum Value = 24

Mean Value = 6.209

Median Value = 4.15

Standard Deviation = 5.45

Coefficient of Variation = 0.8778

Skewness = 1.936

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	0%	1.2	15	4.31	3.25	3.937	0.9136	2.226
007LCM1	1	0%	6.1	6.1	6.1	6.1	0	0	NaN
007LCM114	1	0%	5.3	5.3	5.3	5.3	0	0	NaN
007LCM128	2	0%	1.2	13	7.1	7.1	8.344	1.175	2.8e-16
007LCM131	1	0%	8.8	8.8	8.8	8.8	0	0	NaN
007LCM135	1	0%	1.5	1.5	1.5	1.5	0	0	NaN
007LCM136	2	0%	5.1	11	8.05	8.05	4.172	0.5183	-9.0e-16
007LCM141	1	0%	5.5	5.5	5.5	5.5	0	0	NaN
007LCM145	1	0%	6.4	6.4	6.4	6.4	0	0	NaN
007LCM147	1	0%	5.9	5.9	5.9	5.9	0	0	NaN
007LCM150	1	0%	3.4	3.4	3.4	3.4	0	0	NaN
007LCM154	2	0%	5.3	6.9	6.1	6.1	1.131	0.1855	1.6e-15
007LCM157	1	0%	3.4	3.4	3.4	3.4	0	0	NaN
007LCM181	1	0%	2.8	2.8	2.8	2.8	0	0	NaN
007LCM36	3	0%	3.1	4	3.633	3.8	0.4726	0.1301	-0.5673
007LCM44	1	0%	2.8	2.8	2.8	2.8	0	0	NaN
007LCM55	2	0%	3.7	24	13.85	13.85	14.35	1.036	3.3e-16
007LCM99	2	0%	13	22	17.5	17.5	6.364	0.3637	0

# Summary Report

Constituent: 3-,4-Methylphenol Analysis Run 3/21/2024 1:50 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 2%  
 Wells = 18  
 Minimum Value = 0.085  
 Maximum Value = 4.6  
 Mean Value = 2.703  
 Median Value = 2.95  
 Standard Deviation = 1.063  
 Coefficient of Variation = 0.3934  
 Skewness = -0.8814

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	10%	0.085	3.9	1.95	2.35	1.412	0.7244	-0.1695
007LCM1	1	0%	2.2	2.2	2.2	2.2	0	0	NaN
007LCM114	1	0%	2	2	2	2	0	0	NaN
007LCM128	2	0%	2.4	3.5	2.95	2.95	0.7778	0.2637	-1.3e-15
007LCM131	1	0%	3.2	3.2	3.2	3.2	0	0	NaN
007LCM135	1	0%	2.8	2.8	2.8	2.8	0	0	NaN
007LCM136	2	0%	3	3.8	3.4	3.4	0.5657	0.1664	0
007LCM141	1	0%	4.3	4.3	4.3	4.3	0	0	NaN
007LCM145	1	0%	3.2	3.2	3.2	3.2	0	0	NaN
007LCM147	1	0%	4.6	4.6	4.6	4.6	0	0	NaN
007LCM150	1	0%	2.1	2.1	2.1	2.1	0	0	NaN
007LCM154	2	0%	2.8	3.5	3.15	3.15	0.495	0.1571	0
007LCM157	1	0%	3.7	3.7	3.7	3.7	0	0	NaN
007LCM181	1	0%	3	3	3	3	0	0	NaN
007LCM36	3	0%	2.2	3.2	2.8	3	0.5292	0.189	-0.5952
007LCM44	1	0%	2.5	2.5	2.5	2.5	0	0	NaN
007LCM55	2	0%	2.3	3.4	2.85	2.85	0.7778	0.2729	1.3e-15
007LCM99	2	0%	2.2	3.5	2.85	2.85	0.9192	0.3225	0

# Summary Report

Constituent: Antimony Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 29%  
 Wells = 18  
 Minimum Value = 0.037  
 Maximum Value = 0.26  
 Mean Value = 0.1115  
 Median Value = 0.1025  
 Standard Deviation = 0.0604  
 Coefficient of Variation = 0.5418  
 Skewness = 0.7754

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	40%	0.037	0.19	0.1	0.088	0.04551	0.4551	0.6358
007LCM1	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
007LCM114	1	100%	0.069	0.069	0.069	0.069	0	0	NaN
007LCM128	2	0%	0.038	0.17	0.104	0.104	0.09334	0.8975	0
007LCM131	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
007LCM135	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
007LCM136	2	50%	0.069	0.083	0.076	0.076	0.009899	0.1303	-2.9e-15
007LCM141	1	100%	0.037	0.037	0.037	0.037	0	0	NaN
007LCM145	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
007LCM147	1	100%	0.037	0.037	0.037	0.037	0	0	NaN
007LCM150	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
007LCM154	2	50%	0.037	0.092	0.0645	0.0645	0.03889	0.603	0
007LCM157	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
007LCM181	1	0%	0.043	0.043	0.043	0.043	0	0	NaN
007LCM36	3	0%	0.14	0.26	0.22	0.26	0.06928	0.3149	-0.7071
007LCM44	1	0%	0.076	0.076	0.076	0.076	0	0	NaN
007LCM55	2	0%	0.18	0.2	0.19	0.19	0.01414	0.07443	0
007LCM99	2	50%	0.069	0.15	0.1095	0.1095	0.05728	0.5231	0

# Summary Report

Constituent: Arsenic Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 0%  
 Wells = 18  
 Minimum Value = 0.21  
 Maximum Value = 0.53  
 Mean Value = 0.3706  
 Median Value = 0.37  
 Standard Deviation = 0.06578  
 Coefficient of Variation = 0.1775  
 Skewness = -0.1321

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	0%	0.21	0.37	0.322	0.335	0.05181	0.1609	-1.136
007LCM1	1	0%	0.35	0.35	0.35	0.35	0	0	NaN
007LCM114	1	0%	0.38	0.38	0.38	0.38	0	0	NaN
007LCM128	2	0%	0.36	0.39	0.375	0.375	0.02121	0.05657	0
007LCM131	1	0%	0.43	0.43	0.43	0.43	0	0	NaN
007LCM135	1	0%	0.32	0.32	0.32	0.32	0	0	NaN
007LCM136	2	0%	0.45	0.48	0.465	0.465	0.02121	0.04562	5.6e-15
007LCM141	1	0%	0.37	0.37	0.37	0.37	0	0	NaN
007LCM145	1	0%	0.36	0.36	0.36	0.36	0	0	NaN
007LCM147	1	0%	0.35	0.35	0.35	0.35	0	0	NaN
007LCM150	1	0%	0.39	0.39	0.39	0.39	0	0	NaN
007LCM154	2	0%	0.39	0.41	0.4	0.4	0.01414	0.03536	-8.4e-15
007LCM157	1	0%	0.39	0.39	0.39	0.39	0	0	NaN
007LCM181	1	0%	0.36	0.36	0.36	0.36	0	0	NaN
007LCM36	3	0%	0.37	0.53	0.44	0.42	0.08185	0.186	0.4221
007LCM44	1	0%	0.33	0.33	0.33	0.33	0	0	NaN
007LCM55	2	0%	0.4	0.47	0.435	0.435	0.0495	0.1138	0
007LCM99	2	0%	0.23	0.45	0.34	0.34	0.1556	0.4575	-4.1e-16

# Summary Report

Constituent: Barium Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 0%  
 Wells = 18  
 Minimum Value = 3.3  
 Maximum Value = 4.6  
 Mean Value = 3.738  
 Median Value = 3.7  
 Standard Deviation = 0.2995  
 Coefficient of Variation = 0.08012  
 Skewness = 1.032

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	0%	3.3	4.6	4	4	0.383	0.09574	-0.2252
007LCM1	1	0%	4.1	4.1	4.1	4.1	0	0	NaN
007LCM114	1	0%	3.8	3.8	3.8	3.8	0	0	NaN
007LCM128	2	0%	3.7	3.8	3.75	3.75	0.07071	0.01886	0
007LCM131	1	0%	3.6	3.6	3.6	3.6	0	0	NaN
007LCM135	1	0%	3.5	3.5	3.5	3.5	0	0	NaN
007LCM136	2	0%	3.3	3.4	3.35	3.35	0.07071	0.02111	1.3e-14
007LCM141	1	0%	3.6	3.6	3.6	3.6	0	0	NaN
007LCM145	1	0%	3.6	3.6	3.6	3.6	0	0	NaN
007LCM147	1	0%	3.5	3.5	3.5	3.5	0	0	NaN
007LCM150	1	0%	3.7	3.7	3.7	3.7	0	0	NaN
007LCM154	2	0%	3.5	3.7	3.6	3.6	0.1414	0.03928	0
007LCM157	1	0%	3.7	3.7	3.7	3.7	0	0	NaN
007LCM181	1	0%	3.7	3.7	3.7	3.7	0	0	NaN
007LCM36	3	0%	3.7	3.8	3.733	3.7	0.05774	0.01546	0.7071
007LCM44	1	0%	3.4	3.4	3.4	3.4	0	0	NaN
007LCM55	2	0%	3.4	3.6	3.5	3.5	0.1414	0.04041	0
007LCM99	2	0%	3.6	3.7	3.65	3.65	0.07071	0.01937	-1.3e-14

# Summary Report

Constituent: Beryllium Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 100%  
 Wells = 18  
 Minimum Value = 0.0017  
 Maximum Value = 0.0097  
 Mean Value = 0.003435  
 Median Value = 0.0017  
 Standard Deviation = 0.00325  
 Coefficient of Variation = 0.9461  
 Skewness = 1.428

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	100%	0.0017	0.0097	0.0026	0.0017	0.002514	0.9671	2.594
007LCM1	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
007LCM114	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
007LCM128	2	100%	0.0017	0.0097	0.0057	0.0057	0.005657	0.9924	0
007LCM131	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
007LCM135	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
007LCM136	2	100%	0.0017	0.0027	0.0022	0.0022	0.0007071	0.3214	0
007LCM141	1	100%	0.0097	0.0097	0.0097	0.0097	0	0	NaN
007LCM145	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
007LCM147	1	100%	0.0097	0.0097	0.0097	0.0097	0	0	NaN
007LCM150	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
007LCM154	2	100%	0.0027	0.0097	0.0062	0.0062	0.00495	0.7983	0
007LCM157	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
007LCM181	1	100%	0.0097	0.0097	0.0097	0.0097	0	0	NaN
007LCM36	3	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
007LCM44	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
007LCM55	2	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
007LCM99	2	100%	0.0017	0.0097	0.0057	0.0057	0.005657	0.9924	0

# Summary Report

Constituent: Cadmium Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 100%  
 Wells = 18  
 Minimum Value = 0.0092  
 Maximum Value = 0.015  
 Mean Value = 0.01442  
 Median Value = 0.015  
 Standard Deviation = 0.001392  
 Coefficient of Variation = 0.09654  
 Skewness = -3.202

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	100%	0.014	0.015	0.0148	0.015	0.0004216	0.02849	-1.5
007LCM1	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
007LCM114	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
007LCM128	2	100%	0.014	0.015	0.0145	0.0145	0.0007071	0.04877	0
007LCM131	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
007LCM135	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
007LCM136	2	100%	0.0092	0.015	0.0121	0.0121	0.004101	0.3389	0
007LCM141	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
007LCM145	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
007LCM147	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
007LCM150	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
007LCM154	2	100%	0.0092	0.014	0.0116	0.0116	0.003394	0.2926	0
007LCM157	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
007LCM181	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
007LCM36	3	100%	0.015	0.015	0.015	0.015	0	0	NaN
007LCM44	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
007LCM55	2	100%	0.015	0.015	0.015	0.015	0	0	NaN
007LCM99	2	100%	0.014	0.015	0.0145	0.0145	0.0007071	0.04877	0

# Summary Report

Constituent: Chromium Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 0%  
 Wells = 18  
 Minimum Value = 0.21  
 Maximum Value = 0.3  
 Mean Value = 0.2532  
 Median Value = 0.25  
 Standard Deviation = 0.01838  
 Coefficient of Variation = 0.07257  
 Skewness = 0.5536

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	0%	0.21	0.27	0.247	0.25	0.01636	0.06625	-0.9366
007LCM1	1	0%	0.29	0.29	0.29	0.29	0	0	NaN
007LCM114	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
007LCM128	2	0%	0.26	0.27	0.265	0.265	0.007071	0.02668	0
007LCM131	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
007LCM135	1	0%	0.23	0.23	0.23	0.23	0	0	NaN
007LCM136	2	0%	0.23	0.24	0.235	0.235	0.007071	0.03009	8.4e-15
007LCM141	1	0%	0.28	0.28	0.28	0.28	0	0	NaN
007LCM145	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
007LCM147	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
007LCM150	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
007LCM154	2	0%	0.27	0.29	0.28	0.28	0.01414	0.05051	-8.4e-15
007LCM157	1	0%	0.24	0.24	0.24	0.24	0	0	NaN
007LCM181	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
007LCM36	3	0%	0.24	0.25	0.2467	0.25	0.005774	0.02341	-0.7071
007LCM44	1	0%	0.26	0.26	0.26	0.26	0	0	NaN
007LCM55	2	0%	0.24	0.25	0.245	0.245	0.007071	0.02886	0
007LCM99	2	0%	0.24	0.26	0.25	0.25	0.01414	0.05657	0

# Summary Report

Constituent: Cobalt Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 0%  
 Wells = 18  
 Minimum Value = 0.029  
 Maximum Value = 0.067  
 Mean Value = 0.04424  
 Median Value = 0.0425  
 Standard Deviation = 0.008345  
 Coefficient of Variation = 0.1887  
 Skewness = 0.7266

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	0%	0.029	0.067	0.0466	0.0475	0.01066	0.2287	0.2617
007LCM1	1	0%	0.044	0.044	0.044	0.044	0	0	NaN
007LCM114	1	0%	0.034	0.034	0.034	0.034	0	0	NaN
007LCM128	2	0%	0.042	0.046	0.044	0.044	0.002828	0.06428	5.3e-15
007LCM131	1	0%	0.042	0.042	0.042	0.042	0	0	NaN
007LCM135	1	0%	0.038	0.038	0.038	0.038	0	0	NaN
007LCM136	2	0%	0.036	0.042	0.039	0.039	0.004243	0.1088	0
007LCM141	1	0%	0.052	0.052	0.052	0.052	0	0	NaN
007LCM145	1	0%	0.037	0.037	0.037	0.037	0	0	NaN
007LCM147	1	0%	0.039	0.039	0.039	0.039	0	0	NaN
007LCM150	1	0%	0.047	0.047	0.047	0.047	0	0	NaN
007LCM154	2	0%	0.048	0.051	0.0495	0.0495	0.002121	0.04285	-7.0e-15
007LCM157	1	0%	0.043	0.043	0.043	0.043	0	0	NaN
007LCM181	1	0%	0.055	0.055	0.055	0.055	0	0	NaN
007LCM36	3	0%	0.04	0.049	0.04433	0.044	0.004509	0.1017	0.1351
007LCM44	1	0%	0.039	0.039	0.039	0.039	0	0	NaN
007LCM55	2	0%	0.039	0.063	0.051	0.051	0.01697	0.3328	-9.2e-16
007LCM99	2	0%	0.032	0.036	0.034	0.034	0.002828	0.08319	-5.3e-15

# Summary Report

Constituent: Copper Analysis Run 3/21/2024 5:26 PM  
Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
NDs = 44%  
Wells = 18  
Minimum Value = 0.02  
Maximum Value = 0.099  
Mean Value = 0.05138  
Median Value = 0.041  
Standard Deviation = 0.03054  
Coefficient of Variation = 0.5943  
Skewness = 0.6195

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	50%	0.02	0.099	0.0479	0.041	0.02942	0.6142	0.9229
007LCM1	1	0%	0.042	0.042	0.042	0.042	0	0	NaN
007LCM114	1	0%	0.03	0.03	0.03	0.03	0	0	NaN
007LCM128	2	50%	0.028	0.099	0.0635	0.0635	0.0502	0.7906	0
007LCM131	1	0%	0.038	0.038	0.038	0.038	0	0	NaN
007LCM135	1	0%	0.025	0.025	0.025	0.025	0	0	NaN
007LCM136	2	50%	0.02	0.062	0.041	0.041	0.0297	0.7244	0
007LCM141	1	100%	0.099	0.099	0.099	0.099	0	0	NaN
007LCM145	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
007LCM147	1	100%	0.099	0.099	0.099	0.099	0	0	NaN
007LCM150	1	0%	0.035	0.035	0.035	0.035	0	0	NaN
007LCM154	2	50%	0.057	0.099	0.078	0.078	0.0297	0.3807	4.6e-16
007LCM157	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
007LCM181	1	100%	0.099	0.099	0.099	0.099	0	0	NaN
007LCM36	3	33%	0.02	0.068	0.04633	0.051	0.02434	0.5253	-0.3393
007LCM44	1	0%	0.029	0.029	0.029	0.029	0	0	NaN
007LCM55	2	0%	0.024	0.079	0.0515	0.0515	0.03889	0.7552	-4.1e-16
007LCM99	2	50%	0.026	0.099	0.0625	0.0625	0.05162	0.8259	0

# Summary Report

Constituent: Lead Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 97%  
 Wells = 18  
 Minimum Value = 0.034  
 Maximum Value = 0.056  
 Mean Value = 0.03929  
 Median Value = 0.034  
 Standard Deviation = 0.008597  
 Coefficient of Variation = 0.2188  
 Skewness = 1.138

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	100%	0.034	0.054	0.038	0.034	0.008433	0.2219	1.5
007LCM1	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
007LCM114	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
007LCM128	2	100%	0.034	0.04	0.037	0.037	0.004243	0.1147	0
007LCM131	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
007LCM135	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
007LCM136	2	100%	0.034	0.04	0.037	0.037	0.004243	0.1147	0
007LCM141	1	100%	0.054	0.054	0.054	0.054	0	0	NaN
007LCM145	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
007LCM147	1	100%	0.054	0.054	0.054	0.054	0	0	NaN
007LCM150	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
007LCM154	2	100%	0.04	0.054	0.047	0.047	0.009899	0.2106	0
007LCM157	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
007LCM181	1	100%	0.054	0.054	0.054	0.054	0	0	NaN
007LCM36	3	100%	0.034	0.034	0.034	0.034	0	0	NaN
007LCM44	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
007LCM55	2	50%	0.034	0.056	0.045	0.045	0.01556	0.3457	9.5e-16
007LCM99	2	100%	0.034	0.054	0.044	0.044	0.01414	0.3214	0

# Summary Report

Constituent: Mercury Analysis Run 3/21/2024 5:26 PM  
Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
NDs = 97%  
Wells = 18  
Minimum Value = 0.011  
Maximum Value = 0.16  
Mean Value = 0.02291  
Median Value = 0.016  
Standard Deviation = 0.02649  
Coefficient of Variation = 1.156  
Skewness = 4.263

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	100%	0.011	0.016	0.0135	0.0135	0.002635	0.1952	0
007LCM1	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
007LCM114	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM128	2	100%	0.016	0.039	0.0275	0.0275	0.01626	0.5914	0
007LCM131	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM135	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
007LCM136	2	100%	0.011	0.039	0.025	0.025	0.0198	0.792	0
007LCM141	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
007LCM145	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
007LCM147	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
007LCM150	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
007LCM154	2	100%	0.039	0.039	0.039	0.039	0	0	NaN
007LCM157	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
007LCM181	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
007LCM36	3	100%	0.011	0.016	0.01267	0.011	0.002887	0.2279	0.7071
007LCM44	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM55	2	50%	0.016	0.16	0.088	0.088	0.1018	1.157	0
007LCM99	2	100%	0.011	0.016	0.0135	0.0135	0.003536	0.2619	0

# Summary Report

Constituent: Molybdenum Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 32%  
 Wells = 18  
 Minimum Value = 0.027  
 Maximum Value = 0.097  
 Mean Value = 0.05112  
 Median Value = 0.049  
 Standard Deviation = 0.01416  
 Coefficient of Variation = 0.277  
 Skewness = 1.537

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	30%	0.038	0.097	0.0542	0.049	0.0165	0.3044	1.884
007LCM1	1	0%	0.045	0.045	0.045	0.045	0	0	NaN
007LCM114	1	0%	0.05	0.05	0.05	0.05	0	0	NaN
007LCM128	2	50%	0.049	0.055	0.052	0.052	0.004243	0.08159	3.5e-15
007LCM131	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
007LCM135	1	0%	0.046	0.046	0.046	0.046	0	0	NaN
007LCM136	2	0%	0.039	0.046	0.0425	0.0425	0.00495	0.1165	2.9e-15
007LCM141	1	0%	0.056	0.056	0.056	0.056	0	0	NaN
007LCM145	1	0%	0.049	0.049	0.049	0.049	0	0	NaN
007LCM147	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
007LCM150	1	0%	0.06	0.06	0.06	0.06	0	0	NaN
007LCM154	2	50%	0.027	0.049	0.038	0.038	0.01556	0.4094	4.8e-16
007LCM157	1	0%	0.039	0.039	0.039	0.039	0	0	NaN
007LCM181	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
007LCM36	3	33%	0.038	0.083	0.06067	0.061	0.0225	0.3709	-0.02721
007LCM44	1	0%	0.039	0.039	0.039	0.039	0	0	NaN
007LCM55	2	50%	0.038	0.057	0.0475	0.0475	0.01344	0.2828	1.1e-15
007LCM99	2	50%	0.049	0.085	0.067	0.067	0.02546	0.3799	-1.2e-15

# Summary Report

Constituent: Nickel Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 0%  
 Wells = 18  
 Minimum Value = 0.32  
 Maximum Value = 0.65  
 Mean Value = 0.3806  
 Median Value = 0.37  
 Standard Deviation = 0.0551  
 Coefficient of Variation = 0.1448  
 Skewness = 3.514

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	0%	0.32	0.65	0.41	0.395	0.0925	0.2256	1.837
007LCM1	1	0%	0.35	0.35	0.35	0.35	0	0	NaN
007LCM114	1	0%	0.39	0.39	0.39	0.39	0	0	NaN
007LCM128	2	0%	0.36	0.4	0.38	0.38	0.02828	0.07443	0
007LCM131	1	0%	0.36	0.36	0.36	0.36	0	0	NaN
007LCM135	1	0%	0.35	0.35	0.35	0.35	0	0	NaN
007LCM136	2	0%	0.34	0.35	0.345	0.345	0.007071	0.0205	1.7e-14
007LCM141	1	0%	0.38	0.38	0.38	0.38	0	0	NaN
007LCM145	1	0%	0.35	0.35	0.35	0.35	0	0	NaN
007LCM147	1	0%	0.35	0.35	0.35	0.35	0	0	NaN
007LCM150	1	0%	0.37	0.37	0.37	0.37	0	0	NaN
007LCM154	2	0%	0.35	0.41	0.38	0.38	0.04243	0.1116	-2.8e-15
007LCM157	1	0%	0.37	0.37	0.37	0.37	0	0	NaN
007LCM181	1	0%	0.39	0.39	0.39	0.39	0	0	NaN
007LCM36	3	0%	0.36	0.41	0.3833	0.38	0.02517	0.06565	0.2391
007LCM44	1	0%	0.38	0.38	0.38	0.38	0	0	NaN
007LCM55	2	0%	0.33	0.36	0.345	0.345	0.02121	0.06149	5.6e-15
007LCM99	2	0%	0.36	0.39	0.375	0.375	0.02121	0.05657	0

# Summary Report

Constituent: Selenium Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 94%  
 Wells = 18  
 Minimum Value = 0.023  
 Maximum Value = 0.18  
 Mean Value = 0.08991  
 Median Value = 0.098  
 Standard Deviation = 0.03716  
 Coefficient of Variation = 0.4133  
 Skewness = -0.1769

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	100%	0.023	0.098	0.083	0.098	0.03162	0.381	-1.5
007LCM1	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
007LCM114	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
007LCM128	2	100%	0.023	0.098	0.0605	0.0605	0.05303	0.8766	0
007LCM131	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
007LCM135	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
007LCM136	2	100%	0.098	0.18	0.139	0.139	0.05798	0.4171	0
007LCM141	1	100%	0.023	0.023	0.023	0.023	0	0	NaN
007LCM145	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
007LCM147	1	100%	0.023	0.023	0.023	0.023	0	0	NaN
007LCM150	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
007LCM154	2	50%	0.087	0.18	0.1335	0.1335	0.06576	0.4926	8.8e-16
007LCM157	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
007LCM181	1	100%	0.023	0.023	0.023	0.023	0	0	NaN
007LCM36	3	66%	0.098	0.12	0.1053	0.098	0.0127	0.1206	0.7071
007LCM44	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
007LCM55	2	100%	0.098	0.098	0.098	0.098	0	0	NaN
007LCM99	2	100%	0.098	0.098	0.098	0.098	0	0	NaN

# Summary Report

Constituent: Silver Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 91%  
 Wells = 18  
 Minimum Value = 0.016  
 Maximum Value = 1.8  
 Mean Value = 0.07418  
 Median Value = 0.016  
 Standard Deviation = 0.3061  
 Coefficient of Variation = 4.126  
 Skewness = 5.508

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	100%	0.016	0.018	0.0164	0.016	0.0008433	0.05142	1.5
007LCM1	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM114	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM128	2	100%	0.016	0.018	0.017	0.017	0.001414	0.08319	0
007LCM131	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM135	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM136	2	50%	0.016	1.8	0.908	0.908	1.261	1.389	0
007LCM141	1	100%	0.018	0.018	0.018	0.018	0	0	NaN
007LCM145	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM147	1	100%	0.018	0.018	0.018	0.018	0	0	NaN
007LCM150	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
007LCM154	2	50%	0.027	0.031	0.029	0.029	0.002828	0.09753	0
007LCM157	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM181	1	100%	0.018	0.018	0.018	0.018	0	0	NaN
007LCM36	3	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM44	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM55	2	100%	0.016	0.016	0.016	0.016	0	0	NaN
007LCM99	2	100%	0.016	0.018	0.017	0.017	0.001414	0.08319	0

# Summary Report

Constituent: Thallium Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 100%  
 Wells = 18  
 Minimum Value = 0.048  
 Maximum Value = 0.2  
 Mean Value = 0.07882  
 Median Value = 0.079  
 Standard Deviation = 0.03347  
 Coefficient of Variation = 0.4246  
 Skewness = 2.727

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	100%	0.048	0.079	0.0728	0.079	0.01307	0.1795	-1.5
007LCM1	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM114	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM128	2	100%	0.048	0.079	0.0635	0.0635	0.02192	0.3452	0
007LCM131	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM135	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM136	2	100%	0.079	0.2	0.1395	0.1395	0.08556	0.6133	0
007LCM141	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
007LCM145	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM147	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
007LCM150	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM154	2	100%	0.048	0.2	0.124	0.124	0.1075	0.8668	0
007LCM157	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM181	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
007LCM36	3	100%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM44	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM55	2	100%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM99	2	100%	0.048	0.079	0.0635	0.0635	0.02192	0.3452	0

# Summary Report

Constituent: Vanadium Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 0%  
 Wells = 18  
 Minimum Value = 0.42  
 Maximum Value = 0.57  
 Mean Value = 0.4818  
 Median Value = 0.475  
 Standard Deviation = 0.03588  
 Coefficient of Variation = 0.07449  
 Skewness = 0.7008

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	0%	0.44	0.57	0.511	0.505	0.0428	0.08377	-0.09032
007LCM1	1	0%	0.49	0.49	0.49	0.49	0	0	NaN
007LCM114	1	0%	0.49	0.49	0.49	0.49	0	0	NaN
007LCM128	2	0%	0.49	0.5	0.495	0.495	0.007071	0.01428	0
007LCM131	1	0%	0.46	0.46	0.46	0.46	0	0	NaN
007LCM135	1	0%	0.46	0.46	0.46	0.46	0	0	NaN
007LCM136	2	0%	0.43	0.46	0.445	0.445	0.02121	0.04767	0
007LCM141	1	0%	0.47	0.47	0.47	0.47	0	0	NaN
007LCM145	1	0%	0.48	0.48	0.48	0.48	0	0	NaN
007LCM147	1	0%	0.42	0.42	0.42	0.42	0	0	NaN
007LCM150	1	0%	0.51	0.51	0.51	0.51	0	0	NaN
007LCM154	2	0%	0.44	0.5	0.47	0.47	0.04243	0.09027	2.8e-15
007LCM157	1	0%	0.46	0.46	0.46	0.46	0	0	NaN
007LCM181	1	0%	0.51	0.51	0.51	0.51	0	0	NaN
007LCM36	3	0%	0.47	0.49	0.4767	0.47	0.01155	0.02422	0.7071
007LCM44	1	0%	0.47	0.47	0.47	0.47	0	0	NaN
007LCM55	2	0%	0.44	0.45	0.445	0.445	0.007071	0.01589	0
007LCM99	2	0%	0.45	0.46	0.455	0.455	0.007071	0.01554	0

# Summary Report

Constituent: Zinc Analysis Run 3/21/2024 5:26 PM  
 Chiquita Canyon Landfill Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 32%  
 Wells = 18  
 Minimum Value = 0.064  
 Maximum Value = 0.61  
 Mean Value = 0.119  
 Median Value = 0.105  
 Standard Deviation = 0.09164  
 Coefficient of Variation = 0.7703  
 Skewness = 4.702

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	70%	0.064	0.61	0.1446	0.077	0.1671	1.155	2.473
007LCM1	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
007LCM114	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
007LCM128	2	0%	0.11	0.15	0.13	0.13	0.02828	0.2176	-1.1e-15
007LCM131	1	0%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM135	1	0%	0.079	0.079	0.079	0.079	0	0	NaN
007LCM136	2	0%	0.081	0.1	0.0905	0.0905	0.01344	0.1485	2.2e-15
007LCM141	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
007LCM145	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
007LCM147	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
007LCM150	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
007LCM154	2	50%	0.075	0.1	0.0875	0.0875	0.01768	0.202	0
007LCM157	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
007LCM181	1	0%	0.094	0.094	0.094	0.094	0	0	NaN
007LCM36	3	33%	0.077	0.13	0.109	0.12	0.02816	0.2584	-0.6081
007LCM44	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
007LCM55	2	0%	0.11	0.17	0.14	0.14	0.04243	0.303	-6.9e-16
007LCM99	2	0%	0.11	0.13	0.12	0.12	0.01414	0.1179	2.1e-15

# Summary Report

Constituent: pH Analysis Run 3/21/2024 1:51 PM

Chiquita Canyon Landfill Client: Waste Connections Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34

NDs = 0%

Wells = 18

Minimum Value = 7.04

Maximum Value = 7.73

Mean Value = 7.387

Median Value = 7.345

Standard Deviation = 0.1594

Coefficient of Variation = 0.02158

Skewness = 0.21

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	0%	7.13	7.7	7.449	7.54	0.1928	0.02588	-0.407
007LCM1	1	0%	7.42	7.42	7.42	7.42	0	0	NaN
007LCM114	1	0%	7.53	7.53	7.53	7.53	0	0	NaN
007LCM128	2	0%	7.24	7.39	7.315	7.315	0.1061	0.0145	1.8e-14
007LCM131	1	0%	7.34	7.34	7.34	7.34	0	0	NaN
007LCM135	1	0%	7.73	7.73	7.73	7.73	0	0	NaN
007LCM136	2	0%	7.25	7.27	7.26	7.26	0.01414	0.001948	0
007LCM141	1	0%	7.21	7.21	7.21	7.21	0	0	NaN
007LCM145	1	0%	7.53	7.53	7.53	7.53	0	0	NaN
007LCM147	1	0%	7.22	7.22	7.22	7.22	0	0	NaN
007LCM150	1	0%	7.4	7.4	7.4	7.4	0	0	NaN
007LCM154	2	0%	7.34	7.53	7.435	7.435	0.1344	0.01807	-1.4e-14
007LCM157	1	0%	7.33	7.33	7.33	7.33	0	0	NaN
007LCM181	1	0%	7.37	7.37	7.37	7.37	0	0	NaN
007LCM36	3	0%	7.27	7.51	7.36	7.3	0.1308	0.01777	0.6655
007LCM44	1	0%	7.35	7.35	7.35	7.35	0	0	NaN
007LCM55	2	0%	7.34	7.43	7.385	7.385	0.06364	0.008617	0
007LCM99	2	0%	7.04	7.34	7.19	7.19	0.2121	0.0295	8.9e-15

# Summary Report

Constituent: Temperature Analysis Run 3/21/2024 1:51 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: CCL LCM Leachate Data (Sanitas)

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 34  
 NDs = 0%  
 Wells = 18  
 Minimum Value = 15  
 Maximum Value = 22.2  
 Mean Value = 19.29  
 Median Value = 19.45  
 Standard Deviation = 1.744  
 Coefficient of Variation = 0.09042  
 Skewness = -0.5653

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
007LCM	10	0%	17.2	20.3	19.08	19.45	1.069	0.056	-0.9179
007LCM1	1	0%	20.3	20.3	20.3	20.3	0	0	NaN
007LCM114	1	0%	19	19	19	19	0	0	NaN
007LCM128	2	0%	18.7	22	20.35	20.35	2.333	0.1147	-3.3e-15
007LCM131	1	0%	22.2	22.2	22.2	22.2	0	0	NaN
007LCM135	1	0%	19.3	19.3	19.3	19.3	0	0	NaN
007LCM136	2	0%	16.9	19.5	18.2	18.2	1.838	0.101	0
007LCM141	1	0%	20.1	20.1	20.1	20.1	0	0	NaN
007LCM145	1	0%	18.9	18.9	18.9	18.9	0	0	NaN
007LCM147	1	0%	15.1	15.1	15.1	15.1	0	0	NaN
007LCM150	1	0%	20.2	20.2	20.2	20.2	0	0	NaN
007LCM154	2	0%	15	20.6	17.8	17.8	3.96	0.2225	0
007LCM157	1	0%	20.6	20.6	20.6	20.6	0	0	NaN
007LCM181	1	0%	17.5	17.5	17.5	17.5	0	0	NaN
007LCM36	3	0%	18.1	21.8	19.7	19.2	1.9	0.09645	0.45
007LCM44	1	0%	18.9	18.9	18.9	18.9	0	0	NaN
007LCM55	2	0%	17.7	22.1	19.9	19.9	3.111	0.1563	2.4e-15
007LCM99	2	0%	20.2	21.1	20.65	20.65	0.6364	0.03082	1.2e-14

# Attachment 5

**Attachment 3**  
**REACTION AREA LEACHATE DATA SUMMARY**

# Data Screening

Analysis Run 3/21/2024 12:36 PM

Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

A listing of detects and trace values for 22 constituents in 63 wells on 34 dates:

1,2-Dichloroethane, 002B, 3/9/2024: 0.02 (J) mg/L  
1,4-Dichlorobenzene, 001A103, 3/4/2024: 0.04 (J) mg/L  
1,4-Dichlorobenzene, 001A106, 3/14/2024: 0.009 (J) mg/L  
1,4-Dichlorobenzene, 001A113, 3/13/2024: 0.02 (J) mg/L  
1,4-Dichlorobenzene, 001A13, 2/13/2024: 0.009 (J) mg/L  
1,4-Dichlorobenzene, 001A13, 2/14/2024: 0.007 (J) mg/L  
1,4-Dichlorobenzene, 001A13, 2/16/2024: 0.007 (J) mg/L  
1,4-Dichlorobenzene, 001A13, 2/17/2024: 0.01 (J) mg/L  
1,4-Dichlorobenzene, 001A13, 2/18/2024: 0.008 (J) mg/L  
1,4-Dichlorobenzene, 002B, 3/3/2024: 0.02 (J) mg/L  
1,4-Dichlorobenzene, 002B05, 2/15/2024: 0.2 (J) mg/L  
1,4-Dichlorobenzene, 002B21-23, 3/14/2024: 0.005 (J) mg/L  
1,4-Dichlorobenzene, 002B94, 3/3/2024: 0.01 (J) mg/L  
2-Butanone, 010A82, 2/11/2024: 61 mg/L  
2-Butanone, 001A03, 2/28/2024: 15 mg/L  
2-Butanone, 001A08, 2/17/2024: 42 mg/L  
2-Butanone, 001A08, 2/19/2024: 8.3 (J) mg/L  
2-Butanone, 001A101, 3/4/2024: 40 mg/L  
2-Butanone, 001A103, 3/4/2024: 61 mg/L  
2-Butanone, 001A106, 3/14/2024: 63 mg/L  
2-Butanone, 001A107, 3/13/2024: 42 mg/L  
2-Butanone, 001A109, 2/20/2024: 25 mg/L  
2-Butanone, 001A109-111, 2/23/2024: 25 mg/L  
2-Butanone, 001A110, 2/20/2024: 18 mg/L  
2-Butanone, 001A111, 2/20/2024: 22 mg/L  
2-Butanone, 001A113, 3/13/2024: 83 mg/L  
2-Butanone, 001A114, 3/3/2024: 34 mg/L  
2-Butanone, 001A114, 3/11/2024: 34 mg/L  
2-Butanone, 001A116, 2/20/2024: 26 mg/L  
2-Butanone, 001A117-119, 2/21/2024: 23 mg/L  
2-Butanone, 001A122-124, 2/23/2024: 18 mg/L  
2-Butanone, 001A13, 2/10/2024: 42 mg/L  
2-Butanone, 001A13, 2/11/2024: 32 mg/L  
2-Butanone, 001A13, 2/12/2024: 15 mg/L  
2-Butanone, 001A13, 2/13/2024: 5.8 mg/L  
2-Butanone, 001A13, 2/14/2024: 6.1 mg/L  
2-Butanone, 001A13, 2/15/2024: 10 mg/L  
2-Butanone, 001A13, 2/16/2024: 8.4 mg/L  
2-Butanone, 001A13, 2/17/2024: 11 mg/L  
2-Butanone, 001A13, 2/18/2024: 6.4 mg/L  
2-Butanone, 001A135, 3/7/2024: 20 mg/L  
2-Butanone, 001A137, 3/1/2024: 25 mg/L  
2-Butanone, 001A138, 3/1/2024: 30 mg/L  
2-Butanone, 001A141, 3/1/2024: 23 mg/L  
2-Butanone, 001A146, 3/2/2024: 43 mg/L  
2-Butanone, 001A147, 3/3/2024: 36 mg/L  
2-Butanone, 001A148, 3/3/2024: 42 mg/L  
2-Butanone, 001A152, 3/3/2024: 42 mg/L  
2-Butanone, 001A153, 3/4/2024: 30 mg/L  
2-Butanone, 001A154, 3/4/2024: 34 mg/L  
2-Butanone, 001A160, 3/6/2024: 82 mg/L  
2-Butanone, 001A160, 3/13/2024: 48 mg/L  
2-Butanone, 001A161, 3/7/2024: 41 mg/L  
2-Butanone, 001A162, 3/9/2024: 43 mg/L  
2-Butanone, 001A163, 3/7/2024: 22 mg/L  
2-Butanone, 001A174, 3/10/2024: 24 mg/L  
2-Butanone, 001A178, 3/13/2024: 34 mg/L  
2-Butanone, 001A183, 3/12/2024: 49 mg/L  
2-Butanone, 001A44, 3/10/2024: 26 mg/L  
2-Butanone, 001A58, 2/19/2024: 5.1 (J) mg/L

# Data Screening

Analysis Run 3/21/2024 12:36 PM

Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

2-Butanone, 001A59, 2/19/2024: 6.2 (J) mg/L  
2-Butanone, 001A59, 2/22/2024: 15 mg/L  
2-Butanone, 002B, 3/1/2024: 60 mg/L  
2-Butanone, 002B, 3/2/2024: 92 mg/L  
2-Butanone, 002B, 3/3/2024: 110 mg/L  
2-Butanone, 002B, 3/4/2024: 67 mg/L  
2-Butanone, 002B, 3/5/2024: 59 mg/L  
2-Butanone, 002B, 3/6/2024: 91 mg/L  
2-Butanone, 002B, 3/7/2024: 68 mg/L  
2-Butanone, 002B, 3/8/2024: 80 mg/L  
2-Butanone, 002B, 3/9/2024: 66 mg/L  
2-Butanone, 002B05, 2/15/2024: 42 mg/L  
2-Butanone, 002B106, 2/18/2024: 37 mg/L  
2-Butanone, 002B107, 3/3/2024: 49 mg/L  
2-Butanone, 002B113, 2/20/2024: 55 mg/L  
2-Butanone, 002B114, 2/20/2024: 56 mg/L  
2-Butanone, 002B18, 2/10/2024: 40 mg/L  
2-Butanone, 002B18, 2/11/2024: 41 mg/L  
2-Butanone, 002B18, 2/12/2024: 54 mg/L  
2-Butanone, 002B18, 2/13/2024: 40 mg/L  
2-Butanone, 002B18, 2/14/2024: 40 mg/L  
2-Butanone, 002B18, 2/15/2024: 51 mg/L  
2-Butanone, 002B18, 2/16/2024: 42 mg/L  
2-Butanone, 002B18, 2/17/2024: 64 mg/L  
2-Butanone, 002B18-19, 2/22/2024: 32 mg/L  
2-Butanone, 002B18-19, 2/27/2024: 45 mg/L  
2-Butanone, 002B18-20, 3/4/2024: 78 mg/L  
2-Butanone, 002B18-20, 3/9/2024: 78 mg/L  
2-Butanone, 002B18-20, 3/13/2024: 47 mg/L  
2-Butanone, 002B19-21, 2/18/2024: 39 mg/L  
2-Butanone, 002B20-21, 2/22/2024: 31 mg/L  
2-Butanone, 002B20-21, 2/27/2024: 42 mg/L  
2-Butanone, 002B21, 3/6/2024: 100 mg/L  
2-Butanone, 002B21-23, 3/10/2024: 44 mg/L  
2-Butanone, 002B21-23, 3/14/2024: 62 mg/L  
2-Butanone, 002B22-24, 2/18/2024: 37 mg/L  
2-Butanone, 002B22-24, 2/24/2024: 47 mg/L  
2-Butanone, 002B22-24, 2/29/2024: 61 mg/L  
2-Butanone, 002B22-24, 3/6/2024: 94 mg/L  
2-Butanone, 002B24-25, 3/12/2024: 48 mg/L  
2-Butanone, 002B25-27, 2/18/2024: 39 mg/L  
2-Butanone, 002B25-27, 2/26/2024: 48 mg/L  
2-Butanone, 002B25-27, 3/1/2024: 59 mg/L  
2-Butanone, 002B25-27, 3/7/2024: 53 mg/L  
2-Butanone, 002B26, 2/16/2024: 41 mg/L  
2-Butanone, 002B26, 2/17/2024: 61 mg/L  
2-Butanone, 002B26-27, 3/12/2024: 61 mg/L  
2-Butanone, 002B36, 3/3/2024: 21 mg/L  
2-Butanone, 002B60, 2/19/2024: 33 mg/L  
2-Butanone, 002B6-7, 3/14/2024: 65 mg/L  
2-Butanone, 002B83, 3/3/2024: 27 mg/L  
2-Butanone, 002B84, 3/3/2024: 35 mg/L  
2-Butanone, 002B93, 2/17/2024: 61 mg/L  
2-Butanone, 002B93, 2/21/2024: 52 mg/L  
2-Butanone, 002B93, 2/25/2024: 65 mg/L  
2-Butanone, 002B93, 3/3/2024: 99 mg/L  
2-Butanone, 002B94, 2/17/2024: 59 mg/L  
2-Butanone, 002B94, 2/21/2024: 56 mg/L  
2-Butanone, 002B94, 2/25/2024: 60 mg/L  
2-Butanone, 002B94, 3/3/2024: 94 mg/L  
2-Butanone, 002B94, 3/7/2024: 50 mg/L  
2-Butanone, 002B95, 2/17/2024: 61 mg/L

# Data Screening

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Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

2-Methylphenol, 010A82, 2/11/2024: 0.15 (J) mg/L  
2-Methylphenol, 001A03, 2/28/2024: 0.15 (J) mg/L  
2-Methylphenol, 001A103, 3/4/2024: 0.14 (J) mg/L  
2-Methylphenol, 001A106, 3/14/2024: 0.18 (J) mg/L  
2-Methylphenol, 001A113, 3/13/2024: 0.33 (J) mg/L  
2-Methylphenol, 001A114, 3/3/2024: 0.16 (J) mg/L  
2-Methylphenol, 001A13, 2/10/2024: 0.2 (J) mg/L  
2-Methylphenol, 001A13, 2/11/2024: 0.16 (J) mg/L  
2-Methylphenol, 001A13, 2/14/2024: 0.18 (J) mg/L  
2-Methylphenol, 001A13, 2/15/2024: 0.15 (J) mg/L  
2-Methylphenol, 001A135, 3/7/2024: 0.13 (J) mg/L  
2-Methylphenol, 001A147, 3/3/2024: 0.13 (J) mg/L  
2-Methylphenol, 001A161, 3/7/2024: 0.12 (J) mg/L  
2-Methylphenol, 001A183, 3/12/2024: 0.23 (J) mg/L  
2-Methylphenol, 002B, 3/1/2024: 2 mg/L  
2-Methylphenol, 002B, 3/2/2024: 1.5 mg/L  
2-Methylphenol, 002B, 3/3/2024: 1.7 mg/L  
2-Methylphenol, 002B, 3/4/2024: 1 mg/L  
2-Methylphenol, 002B, 3/5/2024: 1.8 mg/L  
2-Methylphenol, 002B, 3/6/2024: 1.3 mg/L  
2-Methylphenol, 002B, 3/7/2024: 3.2 mg/L  
2-Methylphenol, 002B, 3/8/2024: 1.8 mg/L  
2-Methylphenol, 002B, 3/9/2024: 1.4 mg/L  
2-Methylphenol, 002B05, 2/15/2024: 1 mg/L  
2-Methylphenol, 002B106, 2/18/2024: 1.4 (J) mg/L  
2-Methylphenol, 002B113, 2/20/2024: 1.4 mg/L  
2-Methylphenol, 002B114, 2/20/2024: 1.7 mg/L  
2-Methylphenol, 002B18, 2/10/2024: 1.7 (J) mg/L  
2-Methylphenol, 002B18, 2/11/2024: 1.5 mg/L  
2-Methylphenol, 002B18, 2/12/2024: 2.1 (J) mg/L  
2-Methylphenol, 002B18, 2/13/2024: 1.8 (J) mg/L  
2-Methylphenol, 002B18, 2/14/2024: 2.3 mg/L  
2-Methylphenol, 002B18, 2/15/2024: 1.7 mg/L  
2-Methylphenol, 002B18, 2/16/2024: 1.6 (J) mg/L  
2-Methylphenol, 002B18, 2/17/2024: 1.5 (J) mg/L  
2-Methylphenol, 002B18-19, 2/22/2024: 1.5 mg/L  
2-Methylphenol, 002B18-19, 2/27/2024: 1.8 mg/L  
2-Methylphenol, 002B18-20, 3/4/2024: 1.2 mg/L  
2-Methylphenol, 002B18-20, 3/9/2024: 1.4 mg/L  
2-Methylphenol, 002B18-20, 3/13/2024: 1.8 mg/L  
2-Methylphenol, 002B19-21, 2/18/2024: 1.6 (J) mg/L  
2-Methylphenol, 002B20-21, 2/22/2024: 1.7 mg/L  
2-Methylphenol, 002B20-21, 2/27/2024: 1.6 mg/L  
2-Methylphenol, 002B21, 3/6/2024: 1.6 mg/L  
2-Methylphenol, 002B21-23, 3/10/2024: 1.6 mg/L  
2-Methylphenol, 002B21-23, 3/14/2024: 1.8 mg/L  
2-Methylphenol, 002B22-24, 2/18/2024: 1.4 (J) mg/L  
2-Methylphenol, 002B22-24, 2/24/2024: 1.7 mg/L  
2-Methylphenol, 002B22-24, 2/29/2024: 1.5 mg/L  
2-Methylphenol, 002B22-24, 3/6/2024: 1.4 mg/L  
2-Methylphenol, 002B24-25, 3/12/2024: 2.2 mg/L  
2-Methylphenol, 002B25-27, 2/18/2024: 1.5 (J) mg/L  
2-Methylphenol, 002B25-27, 2/26/2024: 1.7 mg/L  
2-Methylphenol, 002B25-27, 3/1/2024: 2.1 mg/L  
2-Methylphenol, 002B25-27, 3/7/2024: 1.8 mg/L  
2-Methylphenol, 002B26, 2/16/2024: 1.7 (J) mg/L  
2-Methylphenol, 002B26, 2/17/2024: 1.8 (J) mg/L  
2-Methylphenol, 002B26-27, 3/12/2024: 1.6 mg/L  
2-Methylphenol, 002B36, 3/3/2024: 0.18 (J) mg/L  
2-Methylphenol, 002B60, 2/19/2024: 1.6 mg/L  
2-Methylphenol, 002B6-7, 3/14/2024: 2.2 mg/L  
2-Methylphenol, 002B83, 3/3/2024: 0.12 (J) mg/L

# Data Screening

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Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

2-Methylphenol, 002B93, 2/17/2024: 1.7 (J) mg/L  
2-Methylphenol, 002B93, 2/21/2024: 1.4 mg/L  
2-Methylphenol, 002B93, 2/25/2024: 1.7 mg/L  
2-Methylphenol, 002B93, 3/3/2024: 1.8 mg/L  
2-Methylphenol, 002B94, 2/17/2024: 1.8 (J) mg/L  
2-Methylphenol, 002B94, 2/21/2024: 1.6 mg/L  
2-Methylphenol, 002B94, 2/25/2024: 1.8 mg/L  
2-Methylphenol, 002B94, 3/3/2024: 1.7 mg/L  
2-Methylphenol, 002B94, 3/7/2024: 3 mg/L  
2-Methylphenol, 002B95, 2/17/2024: 1.9 (J) mg/L  
3-,4-Methylphenol, 010A82, 2/11/2024: 16 mg/L  
3-,4-Methylphenol, 001A03, 2/28/2024: 31 mg/L  
3-,4-Methylphenol, 001A08, 2/17/2024: 14 mg/L  
3-,4-Methylphenol, 001A08, 2/19/2024: 12 mg/L  
3-,4-Methylphenol, 001A101, 3/4/2024: 13 mg/L  
3-,4-Methylphenol, 001A103, 3/4/2024: 11 mg/L  
3-,4-Methylphenol, 001A106, 3/14/2024: 12 mg/L  
3-,4-Methylphenol, 001A107, 3/13/2024: 15 mg/L  
3-,4-Methylphenol, 001A109, 2/20/2024: 14 mg/L  
3-,4-Methylphenol, 001A109-111, 2/23/2024: 14 mg/L  
3-,4-Methylphenol, 001A110, 2/20/2024: 12 mg/L  
3-,4-Methylphenol, 001A111, 2/20/2024: 15 mg/L  
3-,4-Methylphenol, 001A113, 3/13/2024: 14 mg/L  
3-,4-Methylphenol, 001A114, 3/3/2024: 15 mg/L  
3-,4-Methylphenol, 001A114, 3/11/2024: 11 mg/L  
3-,4-Methylphenol, 001A116, 2/20/2024: 16 mg/L  
3-,4-Methylphenol, 001A117-119, 2/21/2024: 8.2 mg/L  
3-,4-Methylphenol, 001A122-124, 2/23/2024: 12 mg/L  
3-,4-Methylphenol, 001A13, 2/10/2024: 20 mg/L  
3-,4-Methylphenol, 001A13, 2/11/2024: 17 mg/L  
3-,4-Methylphenol, 001A13, 2/12/2024: 20 mg/L  
3-,4-Methylphenol, 001A13, 2/13/2024: 17 mg/L  
3-,4-Methylphenol, 001A13, 2/14/2024: 22 mg/L  
3-,4-Methylphenol, 001A13, 2/15/2024: 17 mg/L  
3-,4-Methylphenol, 001A13, 2/16/2024: 21 mg/L  
3-,4-Methylphenol, 001A13, 2/17/2024: 20 mg/L  
3-,4-Methylphenol, 001A13, 2/18/2024: 21 mg/L  
3-,4-Methylphenol, 001A135, 3/7/2024: 16 mg/L  
3-,4-Methylphenol, 001A137, 3/1/2024: 18 mg/L  
3-,4-Methylphenol, 001A138, 3/1/2024: 18 mg/L  
3-,4-Methylphenol, 001A141, 3/1/2024: 20 mg/L  
3-,4-Methylphenol, 001A146, 3/2/2024: 19 mg/L  
3-,4-Methylphenol, 001A147, 3/3/2024: 13 mg/L  
3-,4-Methylphenol, 001A148, 3/3/2024: 16 mg/L  
3-,4-Methylphenol, 001A152, 3/3/2024: 11 mg/L  
3-,4-Methylphenol, 001A153, 3/4/2024: 10 mg/L  
3-,4-Methylphenol, 001A154, 3/4/2024: 11 mg/L  
3-,4-Methylphenol, 001A160, 3/6/2024: 9.2 mg/L  
3-,4-Methylphenol, 001A160, 3/13/2024: 15 mg/L  
3-,4-Methylphenol, 001A161, 3/7/2024: 17 mg/L  
3-,4-Methylphenol, 001A162, 3/9/2024: 13 mg/L  
3-,4-Methylphenol, 001A163, 3/7/2024: 15 mg/L  
3-,4-Methylphenol, 001A174, 3/10/2024: 15 mg/L  
3-,4-Methylphenol, 001A178, 3/13/2024: 17 mg/L  
3-,4-Methylphenol, 001A183, 3/12/2024: 18 mg/L  
3-,4-Methylphenol, 001A44, 3/10/2024: 11 mg/L  
3-,4-Methylphenol, 001A58, 2/19/2024: 11 mg/L  
3-,4-Methylphenol, 001A59, 2/19/2024: 16 mg/L  
3-,4-Methylphenol, 001A59, 2/22/2024: 24 mg/L  
3-,4-Methylphenol, 002B, 3/1/2024: 18 mg/L  
3-,4-Methylphenol, 002B, 3/2/2024: 15 mg/L  
3-,4-Methylphenol, 002B, 3/3/2024: 17 mg/L

# Data Screening

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Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

3-,4-Methylphenol, 002B, 3/4/2024: 16 mg/L  
3-,4-Methylphenol, 002B, 3/5/2024: 20 mg/L  
3-,4-Methylphenol, 002B, 3/6/2024: 15 mg/L  
3-,4-Methylphenol, 002B, 3/7/2024: 18 mg/L  
3-,4-Methylphenol, 002B, 3/8/2024: 15 mg/L  
3-,4-Methylphenol, 002B, 3/9/2024: 16 mg/L  
3-,4-Methylphenol, 002B05, 2/15/2024: 17 mg/L  
3-,4-Methylphenol, 002B106, 2/18/2024: 13 mg/L  
3-,4-Methylphenol, 002B107, 3/3/2024: 17 mg/L  
3-,4-Methylphenol, 002B113, 2/20/2024: 14 mg/L  
3-,4-Methylphenol, 002B114, 2/20/2024: 16 mg/L  
3-,4-Methylphenol, 002B18, 2/10/2024: 19 mg/L  
3-,4-Methylphenol, 002B18, 2/11/2024: 15 mg/L  
3-,4-Methylphenol, 002B18, 2/12/2024: 19 mg/L  
3-,4-Methylphenol, 002B18, 2/13/2024: 14 mg/L  
3-,4-Methylphenol, 002B18, 2/14/2024: 21 mg/L  
3-,4-Methylphenol, 002B18, 2/15/2024: 12 mg/L  
3-,4-Methylphenol, 002B18, 2/16/2024: 15 mg/L  
3-,4-Methylphenol, 002B18, 2/17/2024: 13 mg/L  
3-,4-Methylphenol, 002B18-19, 2/22/2024: 13 mg/L  
3-,4-Methylphenol, 002B18-19, 2/27/2024: 18 mg/L  
3-,4-Methylphenol, 002B18-20, 3/4/2024: 17 mg/L  
3-,4-Methylphenol, 002B18-20, 3/9/2024: 14 mg/L  
3-,4-Methylphenol, 002B18-20, 3/13/2024: 16 mg/L  
3-,4-Methylphenol, 002B19-21, 2/18/2024: 14 mg/L  
3-,4-Methylphenol, 002B20-21, 2/22/2024: 15 mg/L  
3-,4-Methylphenol, 002B20-21, 2/27/2024: 15 mg/L  
3-,4-Methylphenol, 002B21, 3/6/2024: 14 mg/L  
3-,4-Methylphenol, 002B21-23, 3/10/2024: 15 mg/L  
3-,4-Methylphenol, 002B21-23, 3/14/2024: 17 mg/L  
3-,4-Methylphenol, 002B22-24, 2/18/2024: 14 mg/L  
3-,4-Methylphenol, 002B22-24, 2/24/2024: 16 mg/L  
3-,4-Methylphenol, 002B22-24, 2/29/2024: 14 mg/L  
3-,4-Methylphenol, 002B22-24, 3/6/2024: 13 mg/L  
3-,4-Methylphenol, 002B24-25, 3/12/2024: 17 mg/L  
3-,4-Methylphenol, 002B25-27, 2/18/2024: 14 mg/L  
3-,4-Methylphenol, 002B25-27, 2/26/2024: 16 mg/L  
3-,4-Methylphenol, 002B25-27, 3/1/2024: 18 mg/L  
3-,4-Methylphenol, 002B25-27, 3/7/2024: 16 mg/L  
3-,4-Methylphenol, 002B26, 2/16/2024: 15 mg/L  
3-,4-Methylphenol, 002B26, 2/17/2024: 16 mg/L  
3-,4-Methylphenol, 002B26-27, 3/12/2024: 15 mg/L  
3-,4-Methylphenol, 002B36, 3/3/2024: 17 mg/L  
3-,4-Methylphenol, 002B60, 2/19/2024: 13 mg/L  
3-,4-Methylphenol, 002B6-7, 3/14/2024: 18 mg/L  
3-,4-Methylphenol, 002B83, 3/3/2024: 22 mg/L  
3-,4-Methylphenol, 002B84, 3/3/2024: 16 mg/L  
3-,4-Methylphenol, 002B93, 2/17/2024: 16 mg/L  
3-,4-Methylphenol, 002B93, 2/21/2024: 11 mg/L  
3-,4-Methylphenol, 002B93, 2/25/2024: 15 mg/L  
3-,4-Methylphenol, 002B93, 3/3/2024: 13 mg/L  
3-,4-Methylphenol, 002B94, 2/17/2024: 17 mg/L  
3-,4-Methylphenol, 002B94, 2/21/2024: 13 mg/L  
3-,4-Methylphenol, 002B94, 2/25/2024: 17 mg/L  
3-,4-Methylphenol, 002B94, 3/3/2024: 14 mg/L  
3-,4-Methylphenol, 002B94, 3/7/2024: 26 mg/L  
3-,4-Methylphenol, 002B95, 2/17/2024: 18 mg/L  
Benzene, 010A82, 2/11/2024: 0.7 (J) mg/L  
Benzene, 001A03, 2/28/2024: 0.6 mg/L  
Benzene, 001A08, 2/17/2024: 0.4 (J) mg/L  
Benzene, 001A08, 2/19/2024: 0.4 (J) mg/L  
Benzene, 001A101, 3/4/2024: 0.6 mg/L

# Data Screening

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Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

Benzene, 001A103, 3/4/2024: 0.5 mg/L  
Benzene, 001A106, 3/14/2024: 0.3 (J) mg/L  
Benzene, 001A107, 3/13/2024: 0.3 (J) mg/L  
Benzene, 001A109, 2/20/2024: 0.4 (J) mg/L  
Benzene, 001A109-111, 2/23/2024: 0.5 (J) mg/L  
Benzene, 001A110, 2/20/2024: 0.4 (J) mg/L  
Benzene, 001A111, 2/20/2024: 0.4 (J) mg/L  
Benzene, 001A113, 3/13/2024: 0.4 (J) mg/L  
Benzene, 001A114, 3/3/2024: 0.5 (J) mg/L  
Benzene, 001A114, 3/11/2024: 0.2 (J) mg/L  
Benzene, 001A116, 2/20/2024: 0.5 (J) mg/L  
Benzene, 001A117-119, 2/21/2024: 0.4 (J) mg/L  
Benzene, 001A122-124, 2/23/2024: 0.4 (J) mg/L  
Benzene, 001A13, 2/10/2024: 0.6 mg/L  
Benzene, 001A13, 2/11/2024: 0.7 (J) mg/L  
Benzene, 001A13, 2/12/2024: 0.7 mg/L  
Benzene, 001A13, 2/13/2024: 0.7 mg/L  
Benzene, 001A13, 2/14/2024: 0.7 mg/L  
Benzene, 001A13, 2/15/2024: 0.7 mg/L  
Benzene, 001A13, 2/16/2024: 0.7 mg/L  
Benzene, 001A13, 2/17/2024: 0.7 mg/L  
Benzene, 001A13, 2/18/2024: 0.6 mg/L  
Benzene, 001A135, 3/7/2024: 0.3 (J) mg/L  
Benzene, 001A137, 3/1/2024: 0.4 (J) mg/L  
Benzene, 001A138, 3/1/2024: 0.5 (J) mg/L  
Benzene, 001A141, 3/1/2024: 0.3 (J) mg/L  
Benzene, 001A146, 3/2/2024: 0.5 mg/L  
Benzene, 001A147, 3/3/2024: 0.4 (J) mg/L  
Benzene, 001A148, 3/3/2024: 0.5 (J) mg/L  
Benzene, 001A152, 3/3/2024: 0.4 (J) mg/L  
Benzene, 001A153, 3/4/2024: 0.4 (J) mg/L  
Benzene, 001A154, 3/4/2024: 0.4 (J) mg/L  
Benzene, 001A160, 3/6/2024: 0.4 (J) mg/L  
Benzene, 001A160, 3/13/2024: 0.3 (J) mg/L  
Benzene, 001A161, 3/7/2024: 0.3 (J) mg/L  
Benzene, 001A162, 3/9/2024: 0.6 mg/L  
Benzene, 001A163, 3/7/2024: 0.3 (J) mg/L  
Benzene, 001A174, 3/10/2024: 0.4 (J) mg/L  
Benzene, 001A178, 3/13/2024: 0.4 (J) mg/L  
Benzene, 001A183, 3/12/2024: 0.4 (J) mg/L  
Benzene, 001A44, 3/10/2024: 0.3 (J) mg/L  
Benzene, 001A58, 2/19/2024: 0.4 (J) mg/L  
Benzene, 001A59, 2/19/2024: 0.5 mg/L  
Benzene, 001A59, 2/22/2024: 0.5 (J) mg/L  
Benzene, 002B, 3/1/2024: 0.2 (J) mg/L  
Benzene, 002B, 3/2/2024: 0.3 (J) mg/L  
Benzene, 002B, 3/3/2024: 0.3 (J) mg/L  
Benzene, 002B, 3/4/2024: 0.2 (J) mg/L  
Benzene, 002B, 3/5/2024: 0.2 (J) mg/L  
Benzene, 002B, 3/6/2024: 0.2 (J) mg/L  
Benzene, 002B, 3/7/2024: 0.2 (J) mg/L  
Benzene, 002B, 3/8/2024: 0.2 (J) mg/L  
Benzene, 002B, 3/9/2024: 0.2 (J) mg/L  
Benzene, 002B05, 2/15/2024: 0.3 (J) mg/L  
Benzene, 002B106, 2/18/2024: 0.1 (J) mg/L  
Benzene, 002B107, 3/3/2024: 0.5 mg/L  
Benzene, 002B113, 2/20/2024: 0.09 (J) mg/L  
Benzene, 002B114, 2/20/2024: 0.1 (J) mg/L  
Benzene, 002B18, 2/10/2024: 0.1 (J) mg/L  
Benzene, 002B18, 2/11/2024: 0.2 (J) mg/L  
Benzene, 002B18, 2/12/2024: 0.2 (J) mg/L  
Benzene, 002B18, 2/13/2024: 0.2 (J) mg/L

# Data Screening

Analysis Run 3/21/2024 12:36 PM

Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

Benzene, 002B18, 2/14/2024: 0.2 (J) mg/L  
Benzene, 002B18, 2/15/2024: 0.1 (J) mg/L  
Benzene, 002B18, 2/16/2024: 0.2 (J) mg/L  
Benzene, 002B18, 2/17/2024: 0.1 (J) mg/L  
Benzene, 002B18-19, 2/22/2024: 0.08 (J) mg/L  
Benzene, 002B18-19, 2/27/2024: 0.1 (J) mg/L  
Benzene, 002B18-20, 3/4/2024: 0.1 (J) mg/L  
Benzene, 002B18-20, 3/9/2024: 0.2 (J) mg/L  
Benzene, 002B18-20, 3/13/2024: 0.2 (J) mg/L  
Benzene, 002B19-21, 2/18/2024: 0.1 (J) mg/L  
Benzene, 002B20-21, 2/22/2024: 0.08 (J) mg/L  
Benzene, 002B20-21, 2/27/2024: 0.1 (J) mg/L  
Benzene, 002B21, 3/6/2024: 0.1 (J) mg/L  
Benzene, 002B21-23, 3/10/2024: 0.1 (J) mg/L  
Benzene, 002B21-23, 3/14/2024: 0.1 (J) mg/L  
Benzene, 002B22-24, 2/18/2024: 0.1 (J) mg/L  
Benzene, 002B22-24, 2/24/2024: 0.09 (J) mg/L  
Benzene, 002B22-24, 2/29/2024: 0.1 (J) mg/L  
Benzene, 002B22-24, 3/6/2024: 0.1 (J) mg/L  
Benzene, 002B24-25, 3/12/2024: 0.1 (J) mg/L  
Benzene, 002B25-27, 2/18/2024: 0.1 (J) mg/L  
Benzene, 002B25-27, 2/26/2024: 0.1 (J) mg/L  
Benzene, 002B25-27, 3/1/2024: 0.1 (J) mg/L  
Benzene, 002B25-27, 3/7/2024: 0.1 (J) mg/L  
Benzene, 002B26, 2/16/2024: 0.2 (J) mg/L  
Benzene, 002B26, 2/17/2024: 0.2 (J) mg/L  
Benzene, 002B26-27, 3/12/2024: 0.1 (J) mg/L  
Benzene, 002B36, 3/3/2024: 0.5 mg/L  
Benzene, 002B60, 2/19/2024: 0.09 (J) mg/L  
Benzene, 002B6-7, 3/14/2024: 0.07 (J) mg/L  
Benzene, 002B83, 3/3/2024: 0.8 mg/L  
Benzene, 002B84, 3/3/2024: 0.6 mg/L  
Benzene, 002B93, 2/17/2024: 0.2 (J) mg/L  
Benzene, 002B93, 2/21/2024: 0.1 (J) mg/L  
Benzene, 002B93, 2/25/2024: 0.1 (J) mg/L  
Benzene, 002B93, 3/3/2024: 0.2 (J) mg/L  
Benzene, 002B94, 2/17/2024: 0.2 (J) mg/L  
Benzene, 002B94, 2/21/2024: 0.1 (J) mg/L  
Benzene, 002B94, 2/25/2024: 0.1 (J) mg/L  
Benzene, 002B94, 3/3/2024: 0.1 (J) mg/L  
Benzene, 002B94, 3/7/2024: 0.1 (J) mg/L  
Benzene, 002B95, 2/17/2024: 0.2 (J) mg/L  
Chlorobenzene, 001A13, 2/15/2024: 0.01 (J) mg/L  
Pentachlorophenol, 002B05, 2/15/2024: 0.9 (J) mg/L  
Pyridine, 010A82, 2/11/2024: 0.31 (J) mg/L  
Pyridine, 001A03, 2/28/2024: 0.45 (J) mg/L  
Pyridine, 001A101, 3/4/2024: 0.33 (J) mg/L  
Pyridine, 001A103, 3/4/2024: 0.42 (J) mg/L  
Pyridine, 001A106, 3/14/2024: 0.48 (J) mg/L  
Pyridine, 001A107, 3/13/2024: 0.42 (J) mg/L  
Pyridine, 001A110, 2/20/2024: 0.21 (J) mg/L  
Pyridine, 001A113, 3/13/2024: 0.9 (J) mg/L  
Pyridine, 001A114, 3/3/2024: 0.37 (J) mg/L  
Pyridine, 001A13, 2/11/2024: 0.34 (J) mg/L  
Pyridine, 001A13, 2/14/2024: 0.42 (J) mg/L  
Pyridine, 001A13, 2/15/2024: 0.33 (J) mg/L  
Pyridine, 001A135, 3/7/2024: 0.39 (J) mg/L  
Pyridine, 001A137, 3/1/2024: 0.43 (J) mg/L  
Pyridine, 001A138, 3/1/2024: 0.42 (J) mg/L  
Pyridine, 001A141, 3/1/2024: 0.55 (J) mg/L  
Pyridine, 001A147, 3/3/2024: 0.25 (J) mg/L  
Pyridine, 001A148, 3/3/2024: 0.33 (J) mg/L

# Data Screening

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Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

Pyridine, 001A152, 3/3/2024: 0.26 (J) mg/L  
Pyridine, 001A153, 3/4/2024: 0.24 (J) mg/L  
Pyridine, 001A154, 3/4/2024: 0.27 (J) mg/L  
Pyridine, 001A160, 3/6/2024: 0.16 (J) mg/L  
Pyridine, 001A160, 3/13/2024: 0.26 (J) mg/L  
Pyridine, 001A162, 3/9/2024: 0.21 (J) mg/L  
Pyridine, 001A163, 3/7/2024: 0.32 (J) mg/L  
Pyridine, 001A174, 3/10/2024: 0.23 (J) mg/L  
Pyridine, 001A178, 3/13/2024: 0.31 (J) mg/L  
Pyridine, 001A44, 3/10/2024: 0.36 (J) mg/L  
Pyridine, 001A59, 2/22/2024: 0.41 (J) mg/L  
Pyridine, 002B, 3/1/2024: 1.9 mg/L  
Pyridine, 002B, 3/2/2024: 1.3 mg/L  
Pyridine, 002B, 3/3/2024: 1.8 mg/L  
Pyridine, 002B, 3/4/2024: 1.6 mg/L  
Pyridine, 002B, 3/5/2024: 2.1 mg/L  
Pyridine, 002B, 3/6/2024: 1.2 mg/L  
Pyridine, 002B, 3/7/2024: 3.3 mg/L  
Pyridine, 002B, 3/8/2024: 1.8 mg/L  
Pyridine, 002B, 3/9/2024: 1.1 mg/L  
Pyridine, 002B106, 2/18/2024: 1.4 (J) mg/L  
Pyridine, 002B107, 3/3/2024: 0.31 (J) mg/L  
Pyridine, 002B113, 2/20/2024: 1.8 mg/L  
Pyridine, 002B114, 2/20/2024: 1.8 mg/L  
Pyridine, 002B18, 2/10/2024: 1.6 (J) mg/L  
Pyridine, 002B18, 2/11/2024: 1.4 mg/L  
Pyridine, 002B18, 2/12/2024: 1.4 (J) mg/L  
Pyridine, 002B18, 2/13/2024: 1 (J) mg/L  
Pyridine, 002B18, 2/14/2024: 2.8 mg/L  
Pyridine, 002B18, 2/15/2024: 1.8 mg/L  
Pyridine, 002B18, 2/16/2024: 1.1 (J) mg/L  
Pyridine, 002B18, 2/17/2024: 1.3 (J) mg/L  
Pyridine, 002B18-19, 2/22/2024: 1.7 mg/L  
Pyridine, 002B18-19, 2/27/2024: 1.6 mg/L  
Pyridine, 002B18-20, 3/4/2024: 2.2 mg/L  
Pyridine, 002B18-20, 3/9/2024: 1.2 mg/L  
Pyridine, 002B18-20, 3/13/2024: 1.5 mg/L  
Pyridine, 002B19-21, 2/18/2024: 1 (J) mg/L  
Pyridine, 002B20-21, 2/22/2024: 2.4 mg/L  
Pyridine, 002B20-21, 2/27/2024: 1.7 mg/L  
Pyridine, 002B21, 3/6/2024: 2 mg/L  
Pyridine, 002B21-23, 3/10/2024: 1.5 mg/L  
Pyridine, 002B21-23, 3/14/2024: 2.1 mg/L  
Pyridine, 002B22-24, 2/18/2024: 1.2 (J) mg/L  
Pyridine, 002B22-24, 2/24/2024: 1.3 mg/L  
Pyridine, 002B22-24, 2/29/2024: 1.4 mg/L  
Pyridine, 002B22-24, 3/6/2024: 1.5 mg/L  
Pyridine, 002B24-25, 3/12/2024: 1 (J) mg/L  
Pyridine, 002B25-27, 2/18/2024: 1.4 (J) mg/L  
Pyridine, 002B25-27, 2/26/2024: 1.9 mg/L  
Pyridine, 002B25-27, 3/1/2024: 2.4 mg/L  
Pyridine, 002B25-27, 3/7/2024: 1.9 mg/L  
Pyridine, 002B26, 2/16/2024: 0.79 (J) mg/L  
Pyridine, 002B26, 2/17/2024: 1.4 (J) mg/L  
Pyridine, 002B26-27, 3/12/2024: 0.77 (J) mg/L  
Pyridine, 002B36, 3/3/2024: 0.43 (J) mg/L  
Pyridine, 002B6-7, 3/14/2024: 2.1 mg/L  
Pyridine, 002B83, 3/3/2024: 0.35 (J) mg/L  
Pyridine, 002B84, 3/3/2024: 0.31 (J) mg/L  
Pyridine, 002B93, 2/17/2024: 0.65 (J) mg/L  
Pyridine, 002B93, 2/21/2024: 1.4 mg/L  
Pyridine, 002B93, 2/25/2024: 1.4 mg/L

# Data Screening

Analysis Run 3/21/2024 12:36 PM

Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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Pyridine, 002B93, 3/3/2024: 2.1 mg/L  
Pyridine, 002B94, 2/17/2024: 1.7 (J) mg/L  
Pyridine, 002B94, 2/21/2024: 1.8 mg/L  
Pyridine, 002B94, 2/25/2024: 1.8 mg/L  
Pyridine, 002B94, 3/3/2024: 1.6 mg/L  
Pyridine, 002B94, 3/7/2024: 3.1 mg/L  
Pyridine, 002B95, 2/17/2024: 1.8 (J) mg/L  
Tetrachloroethene, 001A13, 2/17/2024: 0.02 (J) mg/L  
Tetrachloroethene, 002B, 3/1/2024: 0.05 (J) mg/L  
Tetrachloroethene, 002B18, 2/17/2024: 0.02 (J) mg/L  
Trichloroethene, 001A174, 3/10/2024: 0.02 (J) mg/L

# Summary Report

Constituent: 1,2-Dichloroethane Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 99%  
 Wells = 63  
 Minimum Value = 0.003  
 Maximum Value = 0.03  
 Mean Value = 0.009954  
 Median Value = 0.01  
 Standard Deviation = 0.005377  
 Coefficient of Variation = 0.5402  
 Skewness = 2.219

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A03	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A08	2	100%	0.006	0.01	0.008	0.008	0.002828	0.3536	0
001A101	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A103	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A106	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A107	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A109	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A109-111	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A110	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A111	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A113	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A114	2	100%	0.006	0.01	0.008	0.008	0.002828	0.3536	0
001A116	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A117-119	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A122-124	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A13	9	100%	0.003	0.02	0.007667	0.006	0.00495	0.6456	1.923
001A135	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A137	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A138	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A141	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A146	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A147	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A148	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A152	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A153	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A154	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A160	2	100%	0.006	0.01	0.008	0.008	0.002828	0.3536	0
001A161	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A162	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A163	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A174	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A178	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A183	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A44	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A58	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
001A59	2	100%	0.006	0.006	0.006	0.006	0	0	NaN
002B	9	88%	0.006	0.02	0.01067	0.01	0.003742	0.3508	1.795
002B05	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
002B106	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B107	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B113	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B114	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B18	8	100%	0.006	0.03	0.01325	0.01	0.007851	0.5926	1.406
002B18-19	2	100%	0.003	0.006	0.0045	0.0045	0.002121	0.4714	0
002B18-20	3	100%	0.006	0.01	0.008667	0.01	0.002309	0.2665	-0.7071
002B19-21	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B20-21	2	100%	0.003	0.006	0.0045	0.0045	0.002121	0.4714	0
002B21	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B21-23	2	100%	0.006	0.006	0.006	0.006	0	0	NaN
002B22-24	4	100%	0.01	0.03	0.0175	0.015	0.009574	0.5471	0.4934
002B24-25	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
002B25-27	4	100%	0.006	0.03	0.0165	0.015	0.01075	0.6518	0.3314
002B26	2	100%	0.006	0.006	0.006	0.006	0	0	NaN
002B26-27	1	100%	0.006	0.006	0.006	0.006	0	0	NaN
002B36	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B60	1	100%	0.006	0.006	0.006	0.006	0	0	NaN

# Summary Report

Constituent: 1,2-Dichloroethane Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B93	4	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B94	5	100%	0.006	0.01	0.0092	0.01	0.001789	0.1944	-1.5
002B95	1	100%	0.01	0.01	0.01	0.01	0	0	NaN

# Summary Report

Constituent: 1,4-Dichlorobenzene Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 88%  
 Wells = 63  
 Minimum Value = 0.004  
 Maximum Value = 0.2  
 Mean Value = 0.01684  
 Median Value = 0.01  
 Standard Deviation = 0.01918  
 Coefficient of Variation = 1.138  
 Skewness = 8.139

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A03	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A08	2	100%	0.01	0.02	0.015	0.015	0.007071	0.4714	0
001A101	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A103	1	0%	0.04	0.04	0.04	0.04	0	0	NaN
001A106	1	0%	0.009	0.009	0.009	0.009	0	0	NaN
001A107	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A109	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A109-111	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A110	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A111	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A113	1	0%	0.02	0.02	0.02	0.02	0	0	NaN
001A114	2	100%	0.009	0.01	0.0095	0.0095	0.0007071	0.07443	0
001A116	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A117-119	1	100%	0.009	0.009	0.009	0.009	0	0	NaN
001A122-124	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A13	9	44%	0.007	0.02	0.01122	0.01	0.005118	0.4561	1.139
001A135	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A137	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A138	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A141	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A146	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A147	1	100%	0.009	0.009	0.009	0.009	0	0	NaN
001A148	1	100%	0.009	0.009	0.009	0.009	0	0	NaN
001A152	1	100%	0.009	0.009	0.009	0.009	0	0	NaN
001A153	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A154	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A160	2	100%	0.009	0.01	0.0095	0.0095	0.0007071	0.07443	0
001A161	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A162	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A163	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A174	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A178	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A183	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A44	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A58	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A59	2	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B	9	88%	0.009	0.02	0.01767	0.02	0.004637	0.2625	-1.347
002B05	1	0%	0.2	0.2	0.2	0.2	0	0	NaN
002B106	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B107	1	100%	0.009	0.009	0.009	0.009	0	0	NaN
002B113	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B114	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B18	8	100%	0.009	0.04	0.01975	0.02	0.01096	0.5552	0.6916
002B18-19	2	100%	0.007	0.01	0.0085	0.0085	0.002121	0.2496	0
002B18-20	3	100%	0.01	0.02	0.01667	0.02	0.005774	0.3464	-0.7071
002B19-21	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B20-21	2	100%	0.007	0.01	0.0085	0.0085	0.002121	0.2496	0
002B21	1	100%	0.009	0.009	0.009	0.009	0	0	NaN
002B21-23	2	50%	0.005	0.01	0.0075	0.0075	0.003536	0.4714	-5.3e-16
002B22-24	4	100%	0.009	0.04	0.02225	0.02	0.01292	0.5807	0.5789
002B24-25	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B25-27	4	100%	0.01	0.04	0.0225	0.02	0.01258	0.5592	0.652
002B26	2	100%	0.004	0.01	0.007	0.007	0.004243	0.6061	0
002B26-27	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B36	1	100%	0.009	0.009	0.009	0.009	0	0	NaN
002B60	1	100%	0.01	0.01	0.01	0.01	0	0	NaN

# Summary Report

Constituent: 1,4-Dichlorobenzene Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B93	4	100%	0.009	0.02	0.0145	0.0145	0.006351	0.438	0
002B94	5	80%	0.009	0.02	0.0138	0.01	0.005675	0.4112	0.3921
002B95	1	100%	0.02	0.02	0.02	0.02	0	0	NaN

# Summary Report

Constituent: 2-Butanone Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 0%  
 Wells = 63  
 Minimum Value = 5.1  
 Maximum Value = 110  
 Mean Value = 44.83  
 Median Value = 42  
 Standard Deviation = 23.02  
 Coefficient of Variation = 0.5135  
 Skewness = 0.4937

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	61	61	61	61	0	0	NaN
001A03	1	0%	15	15	15	15	0	0	NaN
001A08	2	0%	8.3	42	25.15	25.15	23.83	0.9475	3.8e-16
001A101	1	0%	40	40	40	40	0	0	NaN
001A103	1	0%	61	61	61	61	0	0	NaN
001A106	1	0%	63	63	63	63	0	0	NaN
001A107	1	0%	42	42	42	42	0	0	NaN
001A109	1	0%	25	25	25	25	0	0	NaN
001A109-111	1	0%	25	25	25	25	0	0	NaN
001A110	1	0%	18	18	18	18	0	0	NaN
001A111	1	0%	22	22	22	22	0	0	NaN
001A113	1	0%	83	83	83	83	0	0	NaN
001A114	2	0%	34	34	34	34	0	0	NaN
001A116	1	0%	26	26	26	26	0	0	NaN
001A117-119	1	0%	23	23	23	23	0	0	NaN
001A122-124	1	0%	18	18	18	18	0	0	NaN
001A13	9	0%	5.8	42	15.19	10	12.94	0.8521	1.299
001A135	1	0%	20	20	20	20	0	0	NaN
001A137	1	0%	25	25	25	25	0	0	NaN
001A138	1	0%	30	30	30	30	0	0	NaN
001A141	1	0%	23	23	23	23	0	0	NaN
001A146	1	0%	43	43	43	43	0	0	NaN
001A147	1	0%	36	36	36	36	0	0	NaN
001A148	1	0%	42	42	42	42	0	0	NaN
001A152	1	0%	42	42	42	42	0	0	NaN
001A153	1	0%	30	30	30	30	0	0	NaN
001A154	1	0%	34	34	34	34	0	0	NaN
001A160	2	0%	48	82	65	65	24.04	0.3699	0
001A161	1	0%	41	41	41	41	0	0	NaN
001A162	1	0%	43	43	43	43	0	0	NaN
001A163	1	0%	22	22	22	22	0	0	NaN
001A174	1	0%	24	24	24	24	0	0	NaN
001A178	1	0%	34	34	34	34	0	0	NaN
001A183	1	0%	49	49	49	49	0	0	NaN
001A44	1	0%	26	26	26	26	0	0	NaN
001A58	1	0%	5.1	5.1	5.1	5.1	0	0	NaN
001A59	2	0%	6.2	15	10.6	10.6	6.223	0.587	3.3e-16
002B	9	0%	59	110	77	68	17.44	0.2265	0.7065
002B05	1	0%	42	42	42	42	0	0	NaN
002B106	1	0%	37	37	37	37	0	0	NaN
002B107	1	0%	49	49	49	49	0	0	NaN
002B113	1	0%	55	55	55	55	0	0	NaN
002B114	1	0%	56	56	56	56	0	0	NaN
002B18	8	0%	40	64	46.5	41.5	8.944	0.1923	1.023
002B18-19	2	0%	32	45	38.5	38.5	9.192	0.2388	0
002B18-20	3	0%	47	78	67.67	78	17.9	0.2645	-0.7071
002B19-21	1	0%	39	39	39	39	0	0	NaN
002B20-21	2	0%	31	42	36.5	36.5	7.778	0.2131	0
002B21	1	0%	100	100	100	100	0	0	NaN
002B21-23	2	0%	44	62	53	53	12.73	0.2401	0
002B22-24	4	0%	37	94	59.75	54	24.86	0.4161	0.6593
002B24-25	1	0%	48	48	48	48	0	0	NaN
002B25-27	4	0%	39	59	49.75	50.5	8.461	0.1701	-0.2681
002B26	2	0%	41	61	51	51	14.14	0.2773	0
002B26-27	1	0%	61	61	61	61	0	0	NaN
002B36	1	0%	21	21	21	21	0	0	NaN
002B60	1	0%	33	33	33	33	0	0	NaN

# Summary Report

Constituent: 2-Butanone Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	35	35	35	35	0	0	NaN
002B93	4	0%	52	99	69.25	63	20.56	0.297	0.9099
002B94	5	0%	50	94	63.8	59	17.33	0.2716	1.305
002B95	1	0%	61	61	61	61	0	0	NaN

# Summary Report

Constituent: 2-Methylphenol Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 33%  
 Wells = 63  
 Minimum Value = 0.11  
 Maximum Value = 3.2  
 Mean Value = 0.9654  
 Median Value = 1  
 Standard Deviation = 0.8151  
 Coefficient of Variation = 0.8443  
 Skewness = 0.3099

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A03	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A08	2	100%	0.16	0.32	0.24	0.24	0.1131	0.4714	0
001A101	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
001A103	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
001A106	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
001A107	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
001A109	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A109-111	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A110	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A111	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A113	1	0%	0.33	0.33	0.33	0.33	0	0	NaN
001A114	2	50%	0.11	0.16	0.135	0.135	0.03536	0.2619	-1.7e-15
001A116	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A117-119	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A122-124	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A13	9	55%	0.15	0.79	0.3311	0.32	0.2112	0.6377	1.255
001A135	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
001A137	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A138	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A141	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A146	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A147	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
001A148	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
001A152	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
001A153	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
001A154	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
001A160	2	100%	0.11	0.11	0.11	0.11	0	0	NaN
001A161	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
001A162	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A163	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
001A174	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A178	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
001A183	1	0%	0.23	0.23	0.23	0.23	0	0	NaN
001A44	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A58	1	100%	0.16	0.16	0.16	0.16	0	0	NaN
001A59	2	100%	0.16	0.16	0.16	0.16	0	0	NaN
002B	9	0%	1	3.2	1.744	1.7	0.6247	0.3581	1.384
002B05	1	0%	1	1	1	1	0	0	NaN
002B106	1	0%	1.4	1.4	1.4	1.4	0	0	NaN
002B107	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
002B113	1	0%	1.4	1.4	1.4	1.4	0	0	NaN
002B114	1	0%	1.7	1.7	1.7	1.7	0	0	NaN
002B18	8	0%	1.5	2.3	1.775	1.7	0.2866	0.1615	0.8514
002B18-19	2	0%	1.5	1.8	1.65	1.65	0.2121	0.1286	2.2e-15
002B18-20	3	0%	1.2	1.8	1.467	1.4	0.3055	0.2083	0.3818
002B19-21	1	0%	1.6	1.6	1.6	1.6	0	0	NaN
002B20-21	2	0%	1.6	1.7	1.65	1.65	0.07071	0.04285	6.6e-15
002B21	1	0%	1.6	1.6	1.6	1.6	0	0	NaN
002B21-23	2	0%	1.6	1.8	1.7	1.7	0.1414	0.08319	-3.4e-15
002B22-24	4	0%	1.4	1.7	1.5	1.45	0.1414	0.09428	0.8165
002B24-25	1	0%	2.2	2.2	2.2	2.2	0	0	NaN
002B25-27	4	0%	1.5	2.1	1.775	1.75	0.25	0.1408	0.3233
002B26	2	0%	1.7	1.8	1.75	1.75	0.07071	0.04041	0
002B26-27	1	0%	1.6	1.6	1.6	1.6	0	0	NaN
002B36	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
002B60	1	0%	1.6	1.6	1.6	1.6	0	0	NaN

# Summary Report

Constituent: 2-Methylphenol Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
002B93	4	0%	1.4	1.8	1.65	1.7	0.1732	0.105	-0.8889
002B94	5	0%	1.6	3	1.98	1.8	0.5762	0.291	1.421
002B95	1	0%	1.9	1.9	1.9	1.9	0	0	NaN

# Summary Report

Constituent: 3-,4-Methylphenol Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 0%  
 Wells = 63  
 Minimum Value = 8.2  
 Maximum Value = 31  
 Mean Value = 15.75  
 Median Value = 15  
 Standard Deviation = 3.393  
 Coefficient of Variation = 0.2155  
 Skewness = 1.081

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	16	16	16	16	0	0	NaN
001A03	1	0%	31	31	31	31	0	0	NaN
001A08	2	0%	12	14	13	13	1.414	0.1088	0
001A101	1	0%	13	13	13	13	0	0	NaN
001A103	1	0%	11	11	11	11	0	0	NaN
001A106	1	0%	12	12	12	12	0	0	NaN
001A107	1	0%	15	15	15	15	0	0	NaN
001A109	1	0%	14	14	14	14	0	0	NaN
001A109-111	1	0%	14	14	14	14	0	0	NaN
001A110	1	0%	12	12	12	12	0	0	NaN
001A111	1	0%	15	15	15	15	0	0	NaN
001A113	1	0%	14	14	14	14	0	0	NaN
001A114	2	0%	11	15	13	13	2.828	0.2176	0
001A116	1	0%	16	16	16	16	0	0	NaN
001A117-119	1	0%	8.2	8.2	8.2	8.2	0	0	NaN
001A122-124	1	0%	12	12	12	12	0	0	NaN
001A13	9	0%	17	22	19.44	20	1.944	0.09996	-0.3446
001A135	1	0%	16	16	16	16	0	0	NaN
001A137	1	0%	18	18	18	18	0	0	NaN
001A138	1	0%	18	18	18	18	0	0	NaN
001A141	1	0%	20	20	20	20	0	0	NaN
001A146	1	0%	19	19	19	19	0	0	NaN
001A147	1	0%	13	13	13	13	0	0	NaN
001A148	1	0%	16	16	16	16	0	0	NaN
001A152	1	0%	11	11	11	11	0	0	NaN
001A153	1	0%	10	10	10	10	0	0	NaN
001A154	1	0%	11	11	11	11	0	0	NaN
001A160	2	0%	9.2	15	12.1	12.1	4.101	0.3389	0
001A161	1	0%	17	17	17	17	0	0	NaN
001A162	1	0%	13	13	13	13	0	0	NaN
001A163	1	0%	15	15	15	15	0	0	NaN
001A174	1	0%	15	15	15	15	0	0	NaN
001A178	1	0%	17	17	17	17	0	0	NaN
001A183	1	0%	18	18	18	18	0	0	NaN
001A44	1	0%	11	11	11	11	0	0	NaN
001A58	1	0%	11	11	11	11	0	0	NaN
001A59	2	0%	16	24	20	20	5.657	0.2828	0
002B	9	0%	15	20	16.67	16	1.732	0.1039	0.6974
002B05	1	0%	17	17	17	17	0	0	NaN
002B106	1	0%	13	13	13	13	0	0	NaN
002B107	1	0%	17	17	17	17	0	0	NaN
002B113	1	0%	14	14	14	14	0	0	NaN
002B114	1	0%	16	16	16	16	0	0	NaN
002B18	8	0%	12	21	16	15	3.251	0.2032	0.3466
002B18-19	2	0%	13	18	15.5	15.5	3.536	0.2281	0
002B18-20	3	0%	14	17	15.67	16	1.528	0.0975	-0.3818
002B19-21	1	0%	14	14	14	14	0	0	NaN
002B20-21	2	0%	15	15	15	15	0	0	NaN
002B21	1	0%	14	14	14	14	0	0	NaN
002B21-23	2	0%	15	17	16	16	1.414	0.08839	0
002B22-24	4	0%	13	16	14.25	14	1.258	0.0883	0.652
002B24-25	1	0%	17	17	17	17	0	0	NaN
002B25-27	4	0%	14	18	16	16	1.633	0.1021	0
002B26	2	0%	15	16	15.5	15.5	0.7071	0.04562	0
002B26-27	1	0%	15	15	15	15	0	0	NaN
002B36	1	0%	17	17	17	17	0	0	NaN
002B60	1	0%	13	13	13	13	0	0	NaN

# Summary Report

Constituent: 3-,4-Methylphenol Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	16	16	16	16	0	0	NaN
002B93	4	0%	11	16	13.75	14	2.217	0.1613	-0.278
002B94	5	0%	13	26	17.4	17	5.128	0.2947	1.06
002B95	1	0%	18	18	18	18	0	0	NaN

# Summary Report

Constituent: Benzene Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 0%  
 Wells = 63  
 Minimum Value = 0.07  
 Maximum Value = 0.8  
 Mean Value = 0.3064  
 Median Value = 0.3  
 Standard Deviation = 0.1985  
 Coefficient of Variation = 0.648  
 Skewness = 0.6236

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	0.7	0.7	0.7	0.7	0	0	NaN
001A03	1	0%	0.6	0.6	0.6	0.6	0	0	NaN
001A08	2	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A101	1	0%	0.6	0.6	0.6	0.6	0	0	NaN
001A103	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
001A106	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
001A107	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
001A109	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A109-111	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
001A110	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A111	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A113	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A114	2	0%	0.2	0.5	0.35	0.35	0.2121	0.6061	5.8e-16
001A116	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
001A117-119	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A122-124	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A13	9	0%	0.6	0.7	0.6778	0.7	0.0441	0.06506	-1.336
001A135	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
001A137	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A138	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
001A141	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
001A146	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
001A147	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A148	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
001A152	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A153	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A154	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A160	2	0%	0.3	0.4	0.35	0.35	0.07071	0.202	1.6e-15
001A161	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
001A162	1	0%	0.6	0.6	0.6	0.6	0	0	NaN
001A163	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
001A174	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A178	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A183	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A44	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
001A58	1	0%	0.4	0.4	0.4	0.4	0	0	NaN
001A59	2	0%	0.5	0.5	0.5	0.5	0	0	NaN
002B	9	0%	0.2	0.3	0.2222	0.2	0.0441	0.1984	1.336
002B05	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
002B106	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
002B107	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
002B113	1	0%	0.09	0.09	0.09	0.09	0	0	NaN
002B114	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
002B18	8	0%	0.1	0.2	0.1625	0.2	0.05175	0.3185	-0.5164
002B18-19	2	0%	0.08	0.1	0.09	0.09	0.01414	0.1571	2.1e-15
002B18-20	3	0%	0.1	0.2	0.1667	0.2	0.05774	0.3464	-0.7071
002B19-21	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
002B20-21	2	0%	0.08	0.1	0.09	0.09	0.01414	0.1571	2.1e-15
002B21	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
002B21-23	2	0%	0.1	0.1	0.1	0.1	0	0	NaN
002B22-24	4	0%	0.09	0.1	0.0975	0.1	0.005	0.05128	-1.155
002B24-25	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
002B25-27	4	0%	0.1	0.1	0.1	0.1	0	0	NaN
002B26	2	0%	0.2	0.2	0.2	0.2	0	0	NaN
002B26-27	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
002B36	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
002B60	1	0%	0.09	0.09	0.09	0.09	0	0	NaN

# Summary Report

Constituent: Benzene Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	0.6	0.6	0.6	0.6	0	0	NaN
002B93	4	0%	0.1	0.2	0.15	0.15	0.05774	0.3849	-8.7e-16
002B94	5	0%	0.1	0.2	0.12	0.1	0.04472	0.3727	1.5
002B95	1	0%	0.2	0.2	0.2	0.2	0	0	NaN

# Summary Report

Constituent: Chlorobenzene Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 99%  
 Wells = 63  
 Minimum Value = 0.005  
 Maximum Value = 0.06  
 Mean Value = 0.01633  
 Median Value = 0.01  
 Standard Deviation = 0.01005  
 Coefficient of Variation = 0.6152  
 Skewness = 1.207

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A03	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A08	2	100%	0.01	0.03	0.02	0.02	0.01414	0.7071	0
001A101	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A103	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A106	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A107	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A109	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A109-111	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A110	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A111	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A113	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A114	2	100%	0.007	0.01	0.0085	0.0085	0.002121	0.2496	0
001A116	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A117-119	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A122-124	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A13	9	88%	0.005	0.02	0.009889	0.007	0.006051	0.6119	0.9987
001A135	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A137	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A138	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A141	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A146	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A147	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A148	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A152	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A153	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A154	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A160	2	100%	0.01	0.03	0.02	0.02	0.01414	0.7071	0
001A161	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A162	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A163	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A174	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A178	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A183	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A44	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A58	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
001A59	2	100%	0.03	0.03	0.03	0.03	0	0	NaN
002B	9	100%	0.01	0.03	0.01222	0.01	0.006667	0.5455	2.475
002B05	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
002B106	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B107	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B113	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B114	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B18	8	100%	0.007	0.06	0.01962	0.01	0.018	0.9172	1.607
002B18-19	2	100%	0.02	0.03	0.025	0.025	0.007071	0.2828	0
002B18-20	3	100%	0.01	0.03	0.01667	0.01	0.01155	0.6928	0.7071
002B19-21	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B20-21	2	100%	0.02	0.03	0.025	0.025	0.007071	0.2828	0
002B21	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B21-23	2	100%	0.005	0.03	0.0175	0.0175	0.01768	1.01	0
002B22-24	4	100%	0.01	0.03	0.0175	0.015	0.009574	0.5471	0.4934
002B24-25	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
002B25-27	4	100%	0.01	0.03	0.0225	0.025	0.009574	0.4255	-0.4934
002B26	2	100%	0.005	0.007	0.006	0.006	0.001414	0.2357	0
002B26-27	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
002B36	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B60	1	100%	0.03	0.03	0.03	0.03	0	0	NaN

# Summary Report

Constituent: Chlorobenzene Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B93	4	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B94	5	100%	0.01	0.03	0.014	0.01	0.008944	0.6389	1.5
002B95	1	100%	0.01	0.01	0.01	0.01	0	0	NaN

# Summary Report

Constituent: Pentachlorophenol Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 99%  
 Wells = 63  
 Minimum Value = 0.48  
 Maximum Value = 4.8  
 Mean Value = 1.006  
 Median Value = 0.97  
 Standard Deviation = 0.6548  
 Coefficient of Variation = 0.6511  
 Skewness = 4.363

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.48	0.48	0.48	0.48	0	0	NaN
001A03	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A08	2	100%	0.65	1.3	0.975	0.975	0.4596	0.4714	0
001A101	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A103	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A106	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A107	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A109	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A109-111	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A110	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A111	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A113	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A114	2	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A116	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A117-119	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A122-124	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A13	9	100%	0.48	4.8	1.639	1.3	1.449	0.884	1.412
001A135	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A137	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A138	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A141	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A146	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A147	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A148	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A152	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A153	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A154	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A160	2	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A161	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A162	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A163	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A174	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A178	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A183	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
001A44	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A58	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
001A59	2	100%	0.65	0.65	0.65	0.65	0	0	NaN
002B	9	100%	0.65	0.97	0.8278	0.97	0.1687	0.2037	-0.2236
002B05	1	0%	0.9	0.9	0.9	0.9	0	0	NaN
002B106	1	100%	1.3	1.3	1.3	1.3	0	0	NaN
002B107	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
002B113	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
002B114	1	100%	0.65	0.65	0.65	0.65	0	0	NaN
002B18	8	100%	0.48	4.8	1.762	1.3	1.497	0.8495	1.253
002B18-19	2	100%	0.65	0.97	0.81	0.81	0.2263	0.2794	0
002B18-20	3	100%	0.65	0.97	0.8633	0.97	0.1848	0.214	-0.7071
002B19-21	1	100%	1.3	1.3	1.3	1.3	0	0	NaN
002B20-21	2	100%	0.65	0.97	0.81	0.81	0.2263	0.2794	0
002B21	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
002B21-23	2	100%	0.65	0.65	0.65	0.65	0	0	NaN
002B22-24	4	100%	0.65	1.3	0.9725	0.97	0.2654	0.2729	0.03263
002B24-25	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
002B25-27	4	100%	0.65	1.3	0.9725	0.97	0.2654	0.2729	0.03263
002B26	2	100%	1.3	1.3	1.3	1.3	0	0	NaN
002B26-27	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
002B36	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
002B60	1	100%	0.65	0.65	0.65	0.65	0	0	NaN

# Summary Report

Constituent: Pentachlorophenol Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.97	0.97	0.97	0.97	0	0	NaN
002B93	4	100%	0.65	1.3	0.9725	0.97	0.2654	0.2729	0.03263
002B94	5	100%	0.65	1.3	0.972	0.97	0.2298	0.2364	0.04378
002B95	1	100%	1.3	1.3	1.3	1.3	0	0	NaN

# Summary Report

Constituent: Pyridine Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 20%  
 Wells = 63  
 Minimum Value = 0.11  
 Maximum Value = 3.3  
 Mean Value = 0.9817  
 Median Value = 0.77  
 Standard Deviation = 0.7659  
 Coefficient of Variation = 0.7802  
 Skewness = 0.7112

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	0.31	0.31	0.31	0.31	0	0	NaN
001A03	1	0%	0.45	0.45	0.45	0.45	0	0	NaN
001A08	2	100%	0.21	0.42	0.315	0.315	0.1485	0.4714	0
001A101	1	0%	0.33	0.33	0.33	0.33	0	0	NaN
001A103	1	0%	0.42	0.42	0.42	0.42	0	0	NaN
001A106	1	0%	0.48	0.48	0.48	0.48	0	0	NaN
001A107	1	0%	0.42	0.42	0.42	0.42	0	0	NaN
001A109	1	100%	0.21	0.21	0.21	0.21	0	0	NaN
001A109-111	1	100%	0.21	0.21	0.21	0.21	0	0	NaN
001A110	1	0%	0.21	0.21	0.21	0.21	0	0	NaN
001A111	1	100%	0.21	0.21	0.21	0.21	0	0	NaN
001A113	1	0%	0.9	0.9	0.9	0.9	0	0	NaN
001A114	2	50%	0.14	0.37	0.255	0.255	0.1626	0.6378	0
001A116	1	100%	0.21	0.21	0.21	0.21	0	0	NaN
001A117-119	1	100%	0.21	0.21	0.21	0.21	0	0	NaN
001A122-124	1	100%	0.21	0.21	0.21	0.21	0	0	NaN
001A13	9	66%	0.21	1	0.4722	0.42	0.2354	0.4985	1.357
001A135	1	0%	0.39	0.39	0.39	0.39	0	0	NaN
001A137	1	0%	0.43	0.43	0.43	0.43	0	0	NaN
001A138	1	0%	0.42	0.42	0.42	0.42	0	0	NaN
001A141	1	0%	0.55	0.55	0.55	0.55	0	0	NaN
001A146	1	100%	0.21	0.21	0.21	0.21	0	0	NaN
001A147	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
001A148	1	0%	0.33	0.33	0.33	0.33	0	0	NaN
001A152	1	0%	0.26	0.26	0.26	0.26	0	0	NaN
001A153	1	0%	0.24	0.24	0.24	0.24	0	0	NaN
001A154	1	0%	0.27	0.27	0.27	0.27	0	0	NaN
001A160	2	0%	0.16	0.26	0.21	0.21	0.07071	0.3367	-8.7e-16
001A161	1	100%	0.14	0.14	0.14	0.14	0	0	NaN
001A162	1	0%	0.21	0.21	0.21	0.21	0	0	NaN
001A163	1	0%	0.32	0.32	0.32	0.32	0	0	NaN
001A174	1	0%	0.23	0.23	0.23	0.23	0	0	NaN
001A178	1	0%	0.31	0.31	0.31	0.31	0	0	NaN
001A183	1	100%	0.14	0.14	0.14	0.14	0	0	NaN
001A44	1	0%	0.36	0.36	0.36	0.36	0	0	NaN
001A58	1	100%	0.21	0.21	0.21	0.21	0	0	NaN
001A59	2	50%	0.21	0.41	0.31	0.31	0.1414	0.4562	7.6e-16
002B	9	0%	1.1	3.3	1.789	1.8	0.6604	0.3692	1.302
002B05	1	100%	0.11	0.11	0.11	0.11	0	0	NaN
002B106	1	0%	1.4	1.4	1.4	1.4	0	0	NaN
002B107	1	0%	0.31	0.31	0.31	0.31	0	0	NaN
002B113	1	0%	1.8	1.8	1.8	1.8	0	0	NaN
002B114	1	0%	1.8	1.8	1.8	1.8	0	0	NaN
002B18	8	0%	1	2.8	1.55	1.4	0.5657	0.365	1.425
002B18-19	2	0%	1.6	1.7	1.65	1.65	0.07071	0.04285	6.6e-15
002B18-20	3	0%	1.2	2.2	1.633	1.5	0.5132	0.3142	0.4451
002B19-21	1	0%	1	1	1	1	0	0	NaN
002B20-21	2	0%	1.7	2.4	2.05	2.05	0.495	0.2415	9.7e-16
002B21	1	0%	2	2	2	2	0	0	NaN
002B21-23	2	0%	1.5	2.1	1.8	1.8	0.4243	0.2357	0
002B22-24	4	0%	1.2	1.5	1.35	1.35	0.1291	0.09563	-2.9e-15
002B24-25	1	0%	1	1	1	1	0	0	NaN
002B25-27	4	0%	1.4	2.4	1.9	1.9	0.4082	0.2149	0
002B26	2	0%	0.79	1.4	1.095	1.095	0.4313	0.3939	0
002B26-27	1	0%	0.77	0.77	0.77	0.77	0	0	NaN
002B36	1	0%	0.43	0.43	0.43	0.43	0	0	NaN
002B60	1	100%	0.21	0.21	0.21	0.21	0	0	NaN

# Summary Report

Constituent: Pyridine Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	0.31	0.31	0.31	0.31	0	0	NaN
002B93	4	0%	0.65	2.1	1.388	1.4	0.5921	0.4268	-0.07308
002B94	5	0%	1.6	3.1	2	1.8	0.6205	0.3102	1.432
002B95	1	0%	1.8	1.8	1.8	1.8	0	0	NaN

# Summary Report

Constituent: Tetrachloroethene Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 97%  
 Wells = 63  
 Minimum Value = 0.004  
 Maximum Value = 0.05  
 Mean Value = 0.01706  
 Median Value = 0.02  
 Standard Deviation = 0.007417  
 Coefficient of Variation = 0.4346  
 Skewness = 0.6247

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A03	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A08	2	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A101	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A103	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A106	1	100%	0.008	0.008	0.008	0.008	0	0	NaN
001A107	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A109	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A109-111	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A110	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A111	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A113	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A114	2	100%	0.008	0.008	0.008	0.008	0	0	NaN
001A116	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A117-119	1	100%	0.008	0.008	0.008	0.008	0	0	NaN
001A122-124	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A13	9	88%	0.004	0.02	0.01089	0.008	0.007149	0.6566	0.4497
001A135	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A137	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A138	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A141	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A146	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A147	1	100%	0.008	0.008	0.008	0.008	0	0	NaN
001A148	1	100%	0.008	0.008	0.008	0.008	0	0	NaN
001A152	1	100%	0.008	0.008	0.008	0.008	0	0	NaN
001A153	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A154	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A160	2	100%	0.008	0.02	0.014	0.014	0.008485	0.6061	0
001A161	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A162	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A163	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A174	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A178	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A183	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A44	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A58	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A59	2	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B	9	88%	0.008	0.05	0.02067	0.02	0.01217	0.5887	1.559
002B05	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
002B106	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B107	1	100%	0.008	0.008	0.008	0.008	0	0	NaN
002B113	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B114	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B18	8	87%	0.008	0.04	0.01925	0.02	0.01151	0.598	0.5914
002B18-19	2	100%	0.01	0.02	0.015	0.015	0.007071	0.4714	0
002B18-20	3	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B19-21	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B20-21	2	100%	0.01	0.02	0.015	0.015	0.007071	0.4714	0
002B21	1	100%	0.008	0.008	0.008	0.008	0	0	NaN
002B21-23	2	100%	0.004	0.02	0.012	0.012	0.01131	0.9428	0
002B22-24	4	100%	0.008	0.03	0.0195	0.02	0.009	0.4615	-0.1917
002B24-25	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B25-27	4	100%	0.02	0.03	0.0225	0.02	0.005	0.2222	1.155
002B26	2	100%	0.004	0.008	0.006	0.006	0.002828	0.4714	0
002B26-27	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B36	1	100%	0.008	0.008	0.008	0.008	0	0	NaN
002B60	1	100%	0.02	0.02	0.02	0.02	0	0	NaN

# Summary Report

Constituent: Tetrachloroethene Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B93	4	100%	0.008	0.02	0.014	0.014	0.006928	0.4949	0
002B94	5	100%	0.008	0.02	0.0152	0.02	0.006573	0.4324	-0.4082
002B95	1	100%	0.02	0.02	0.02	0.02	0	0	NaN

# Summary Report

Constituent: Trichloroethene Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 99%  
 Wells = 63  
 Minimum Value = 0.006  
 Maximum Value = 0.03  
 Mean Value = 0.01476  
 Median Value = 0.01  
 Standard Deviation = 0.00628  
 Coefficient of Variation = 0.4255  
 Skewness = 0.4858

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A03	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A08	2	100%	0.01	0.02	0.015	0.015	0.007071	0.4714	0
001A101	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A103	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A106	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A107	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A109	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A109-111	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A110	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A111	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A113	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A114	2	100%	0.008	0.01	0.009	0.009	0.001414	0.1571	0
001A116	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A117-119	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A122-124	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A13	9	100%	0.006	0.02	0.009889	0.008	0.005798	0.5863	1.256
001A135	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A137	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A138	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A141	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A146	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A147	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A148	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A152	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A153	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A154	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A160	2	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A161	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A162	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A163	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A174	1	0%	0.02	0.02	0.02	0.02	0	0	NaN
001A178	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A183	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A44	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A58	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
001A59	2	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B	9	100%	0.01	0.02	0.01667	0.02	0.005	0.3	-0.7071
002B05	1	100%	0.03	0.03	0.03	0.03	0	0	NaN
002B106	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B107	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B113	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B114	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B18	8	100%	0.008	0.03	0.0185	0.02	0.008668	0.4686	0.1561
002B18-19	2	100%	0.007	0.01	0.0085	0.0085	0.002121	0.2496	0
002B18-20	3	100%	0.01	0.02	0.01667	0.02	0.005774	0.3464	-0.7071
002B19-21	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B20-21	2	100%	0.007	0.01	0.0085	0.0085	0.002121	0.2496	0
002B21	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B21-23	2	100%	0.006	0.01	0.008	0.008	0.002828	0.3536	0
002B22-24	4	100%	0.01	0.03	0.02	0.02	0.008165	0.4082	0
002B24-25	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B25-27	4	100%	0.01	0.03	0.02	0.02	0.008165	0.4082	0
002B26	2	100%	0.006	0.008	0.007	0.007	0.001414	0.202	0
002B26-27	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B36	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B60	1	100%	0.01	0.01	0.01	0.01	0	0	NaN
002B67	1	100%	0.01	0.01	0.01	0.01	0	0	NaN

# Summary Report

Constituent: Trichloroethene Analysis Run 3/21/2024 12:42 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B93	4	100%	0.01	0.02	0.015	0.015	0.005774	0.3849	0
002B94	5	100%	0.01	0.02	0.014	0.01	0.005477	0.3912	0.4082
002B95	1	100%	0.02	0.02	0.02	0.02	0	0	NaN

# Summary Report

Constituent: Antimony Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 31%  
 Wells = 63  
 Minimum Value = 0.0185  
 Maximum Value = 0.73  
 Mean Value = 0.1502  
 Median Value = 0.1  
 Standard Deviation = 0.1392  
 Coefficient of Variation = 0.9272  
 Skewness = 2.603

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.069	0.069	0.069	0.069	0	0	NaN
001A03	1	0%	0.21	0.21	0.21	0.21	0	0	NaN
001A08	2	50%	0.069	0.43	0.2495	0.2495	0.2553	1.023	0
001A101	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
001A103	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
001A106	1	100%	0.083	0.083	0.083	0.083	0	0	NaN
001A107	1	0%	0.039	0.039	0.039	0.039	0	0	NaN
001A109	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
001A109-111	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
001A110	1	0%	0.097	0.097	0.097	0.097	0	0	NaN
001A111	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A113	1	0%	0.08	0.08	0.08	0.08	0	0	NaN
001A114	2	0%	0.077	0.1	0.0885	0.0885	0.01626	0.1838	1.8e-15
001A116	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
001A117-119	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
001A122-124	1	0%	0.089	0.089	0.089	0.089	0	0	NaN
001A13	9	55%	0.069	0.73	0.1961	0.069	0.2333	1.19	1.625
001A135	1	100%	0.083	0.083	0.083	0.083	0	0	NaN
001A137	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A138	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
001A141	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A146	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
001A147	1	0%	0.22	0.22	0.22	0.22	0	0	NaN
001A148	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
001A152	1	0%	0.096	0.096	0.096	0.096	0	0	NaN
001A153	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
001A154	1	0%	0.086	0.086	0.086	0.086	0	0	NaN
001A160	2	100%	0.037	0.069	0.053	0.053	0.02263	0.4269	0
001A161	1	0%	0.085	0.085	0.085	0.085	0	0	NaN
001A162	1	100%	0.037	0.037	0.037	0.037	0	0	NaN
001A163	1	0%	0.092	0.092	0.092	0.092	0	0	NaN
001A174	1	100%	0.083	0.083	0.083	0.083	0	0	NaN
001A178	1	100%	0.083	0.083	0.083	0.083	0	0	NaN
001A183	1	100%	0.037	0.037	0.037	0.037	0	0	NaN
001A44	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
001A58	1	0%	0.21	0.21	0.21	0.21	0	0	NaN
001A59	2	0%	0.047	0.14	0.0935	0.0935	0.06576	0.7033	4.0e-16
002B	9	11%	0.0185	0.31	0.1369	0.12	0.08033	0.5866	0.871
002B05	1	0%	0.51	0.51	0.51	0.51	0	0	NaN
002B106	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
002B107	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
002B113	1	0%	0.37	0.37	0.37	0.37	0	0	NaN
002B114	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
002B18	8	50%	0.069	0.72	0.2355	0.0735	0.2932	1.245	1.148
002B18-19	2	50%	0.069	0.23	0.1495	0.1495	0.1138	0.7615	5.2e-16
002B18-20	3	33%	0.083	0.13	0.09933	0.085	0.02658	0.2676	0.7026
002B19-21	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
002B20-21	2	50%	0.069	0.18	0.1245	0.1245	0.07849	0.6304	0
002B21	1	0%	0.078	0.078	0.078	0.078	0	0	NaN
002B21-23	2	100%	0.083	0.083	0.083	0.083	0	0	NaN
002B22-24	4	0%	0.078	0.21	0.1395	0.135	0.05429	0.3892	0.2812
002B24-25	1	100%	0.037	0.037	0.037	0.037	0	0	NaN
002B25-27	4	25%	0.083	0.22	0.1482	0.145	0.05966	0.4024	0.1438
002B26	2	50%	0.069	0.61	0.3395	0.3395	0.3825	1.127	0
002B26-27	1	0%	0.042	0.042	0.042	0.042	0	0	NaN
002B36	1	100%	0.069	0.069	0.069	0.069	0	0	NaN
002B60	1	0%	0.34	0.34	0.34	0.34	0	0	NaN

# Summary Report

Constituent: Antimony Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	0.082	0.082	0.082	0.082	0	0	NaN
002B93	4	25%	0.069	0.4	0.188	0.1415	0.1507	0.8016	0.7856
002B94	5	40%	0.069	0.34	0.141	0.083	0.1149	0.8146	1.291
002B95	1	100%	0.069	0.069	0.069	0.069	0	0	NaN

# Summary Report

Constituent: Arsenic Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 0%  
 Wells = 63  
 Minimum Value = 0.048  
 Maximum Value = 0.79  
 Mean Value = 0.3356  
 Median Value = 0.3  
 Standard Deviation = 0.1562  
 Coefficient of Variation = 0.4654  
 Skewness = 0.347

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
001A03	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
001A08	2	0%	0.21	0.31	0.26	0.26	0.07071	0.272	-8.7e-16
001A101	1	0%	0.23	0.23	0.23	0.23	0	0	NaN
001A103	1	0%	0.29	0.29	0.29	0.29	0	0	NaN
001A106	1	0%	0.34	0.34	0.34	0.34	0	0	NaN
001A107	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
001A109	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
001A109-111	1	0%	0.22	0.22	0.22	0.22	0	0	NaN
001A110	1	0%	0.26	0.26	0.26	0.26	0	0	NaN
001A111	1	0%	0.27	0.27	0.27	0.27	0	0	NaN
001A113	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A114	2	0%	0.17	0.34	0.255	0.255	0.1202	0.4714	4.4e-16
001A116	1	0%	0.26	0.26	0.26	0.26	0	0	NaN
001A117-119	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
001A122-124	1	0%	0.23	0.23	0.23	0.23	0	0	NaN
001A13	9	0%	0.13	0.31	0.2689	0.28	0.05419	0.2015	-2.116
001A135	1	0%	0.23	0.23	0.23	0.23	0	0	NaN
001A137	1	0%	0.22	0.22	0.22	0.22	0	0	NaN
001A138	1	0%	0.24	0.24	0.24	0.24	0	0	NaN
001A141	1	0%	0.24	0.24	0.24	0.24	0	0	NaN
001A146	1	0%	0.26	0.26	0.26	0.26	0	0	NaN
001A147	1	0%	0.28	0.28	0.28	0.28	0	0	NaN
001A148	1	0%	0.27	0.27	0.27	0.27	0	0	NaN
001A152	1	0%	0.26	0.26	0.26	0.26	0	0	NaN
001A153	1	0%	0.21	0.21	0.21	0.21	0	0	NaN
001A154	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
001A160	2	0%	0.1	0.28	0.19	0.19	0.1273	0.6699	4.5e-16
001A161	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
001A162	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A163	1	0%	0.21	0.21	0.21	0.21	0	0	NaN
001A174	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
001A178	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
001A183	1	0%	0.2	0.2	0.2	0.2	0	0	NaN
001A44	1	0%	0.09	0.09	0.09	0.09	0	0	NaN
001A58	1	0%	0.22	0.22	0.22	0.22	0	0	NaN
001A59	2	0%	0.15	0.37	0.26	0.26	0.1556	0.5983	-4.1e-16
002B	9	0%	0.13	0.79	0.4489	0.45	0.1783	0.3972	0.1511
002B05	1	0%	0.26	0.26	0.26	0.26	0	0	NaN
002B106	1	0%	0.24	0.24	0.24	0.24	0	0	NaN
002B107	1	0%	0.32	0.32	0.32	0.32	0	0	NaN
002B113	1	0%	0.49	0.49	0.49	0.49	0	0	NaN
002B114	1	0%	0.46	0.46	0.46	0.46	0	0	NaN
002B18	8	0%	0.17	0.54	0.4613	0.495	0.1208	0.2618	-2.043
002B18-19	2	0%	0.049	0.58	0.3145	0.3145	0.3755	1.194	-3.7e-16
002B18-20	3	0%	0.19	0.45	0.2767	0.19	0.1501	0.5426	0.7071
002B19-21	1	0%	0.47	0.47	0.47	0.47	0	0	NaN
002B20-21	2	50%	0.048	0.58	0.314	0.314	0.3762	1.198	0
002B21	1	0%	0.48	0.48	0.48	0.48	0	0	NaN
002B21-23	2	0%	0.16	0.45	0.305	0.305	0.2051	0.6723	2.8e-16
002B22-24	4	0%	0.11	0.47	0.3725	0.455	0.1752	0.4703	-1.147
002B24-25	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
002B25-27	4	0%	0.13	0.53	0.395	0.46	0.1827	0.4624	-0.9457
002B26	2	0%	0.51	0.54	0.525	0.525	0.02121	0.04041	0
002B26-27	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
002B36	1	0%	0.36	0.36	0.36	0.36	0	0	NaN
002B60	1	0%	0.49	0.49	0.49	0.49	0	0	NaN

# Summary Report

Constituent: Arsenic Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	0.29	0.29	0.29	0.29	0	0	NaN
002B93	4	0%	0.42	0.66	0.5475	0.555	0.1024	0.1871	-0.2123
002B94	5	0%	0.48	0.68	0.548	0.51	0.08349	0.1523	0.8494
002B95	1	0%	0.51	0.51	0.51	0.51	0	0	NaN

# Summary Report

Constituent: Barium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 0%  
 Wells = 63  
 Minimum Value = 0.2  
 Maximum Value = 7.3  
 Mean Value = 4.117  
 Median Value = 3.1  
 Standard Deviation = 1.99  
 Coefficient of Variation = 0.4834  
 Skewness = 0.00909

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	2.9	2.9	2.9	2.9	0	0	NaN
001A03	1	0%	2.5	2.5	2.5	2.5	0	0	NaN
001A08	2	0%	1.6	2.5	2.05	2.05	0.6364	0.3104	1.4e-15
001A101	1	0%	2.2	2.2	2.2	2.2	0	0	NaN
001A103	1	0%	1.7	1.7	1.7	1.7	0	0	NaN
001A106	1	0%	2.1	2.1	2.1	2.1	0	0	NaN
001A107	1	0%	2.5	2.5	2.5	2.5	0	0	NaN
001A109	1	0%	1.8	1.8	1.8	1.8	0	0	NaN
001A109-111	1	0%	2	2	2	2	0	0	NaN
001A110	1	0%	1.9	1.9	1.9	1.9	0	0	NaN
001A111	1	0%	2	2	2	2	0	0	NaN
001A113	1	0%	2.2	2.2	2.2	2.2	0	0	NaN
001A114	2	0%	2.5	2.5	2.5	2.5	0	0	NaN
001A116	1	0%	1.9	1.9	1.9	1.9	0	0	NaN
001A117-119	1	0%	1.6	1.6	1.6	1.6	0	0	NaN
001A122-124	1	0%	1.9	1.9	1.9	1.9	0	0	NaN
001A13	9	0%	2.4	2.8	2.678	2.7	0.1394	0.05207	-1.053
001A135	1	0%	1.7	1.7	1.7	1.7	0	0	NaN
001A137	1	0%	1.9	1.9	1.9	1.9	0	0	NaN
001A138	1	0%	2	2	2	2	0	0	NaN
001A141	1	0%	2	2	2	2	0	0	NaN
001A146	1	0%	2.2	2.2	2.2	2.2	0	0	NaN
001A147	1	0%	2	2	2	2	0	0	NaN
001A148	1	0%	1.9	1.9	1.9	1.9	0	0	NaN
001A152	1	0%	1.8	1.8	1.8	1.8	0	0	NaN
001A153	1	0%	1.7	1.7	1.7	1.7	0	0	NaN
001A154	1	0%	1.9	1.9	1.9	1.9	0	0	NaN
001A160	2	0%	2.1	2.3	2.2	2.2	0.1414	0.06428	-6.6e-15
001A161	1	0%	2.1	2.1	2.1	2.1	0	0	NaN
001A162	1	0%	2.4	2.4	2.4	2.4	0	0	NaN
001A163	1	0%	1.7	1.7	1.7	1.7	0	0	NaN
001A174	1	0%	2.1	2.1	2.1	2.1	0	0	NaN
001A178	1	0%	2.1	2.1	2.1	2.1	0	0	NaN
001A183	1	0%	2.4	2.4	2.4	2.4	0	0	NaN
001A44	1	0%	2.5	2.5	2.5	2.5	0	0	NaN
001A58	1	0%	1.8	1.8	1.8	1.8	0	0	NaN
001A59	2	0%	2.7	2.8	2.75	2.75	0.07071	0.02571	0
002B	9	0%	4.5	7.3	6.267	6.5	0.8846	0.1412	-0.9885
002B05	1	0%	5.5	5.5	5.5	5.5	0	0	NaN
002B106	1	0%	3.1	3.1	3.1	3.1	0	0	NaN
002B107	1	0%	2.5	2.5	2.5	2.5	0	0	NaN
002B113	1	0%	6.2	6.2	6.2	6.2	0	0	NaN
002B114	1	0%	5.5	5.5	5.5	5.5	0	0	NaN
002B18	8	0%	5.6	6.2	5.838	5.8	0.2134	0.03656	0.6085
002B18-19	2	0%	5.6	6.2	5.9	5.9	0.4243	0.07191	-4.4e-15
002B18-20	3	0%	6.1	6.5	6.333	6.4	0.2082	0.03287	-0.528
002B19-21	1	0%	5.7	5.7	5.7	5.7	0	0	NaN
002B20-21	2	0%	5.9	6.4	6.15	6.15	0.3536	0.05749	0
002B21	1	0%	6	6	6	6	0	0	NaN
002B21-23	2	0%	6.6	6.7	6.65	6.65	0.07071	0.01063	-2.7e-14
002B22-24	4	0%	0.2	6.1	4.575	6	2.918	0.6379	-1.151
002B24-25	1	0%	6.8	6.8	6.8	6.8	0	0	NaN
002B25-27	4	0%	5.6	6.4	6.025	6.05	0.35	0.05809	-0.1852
002B26	2	0%	5.7	6	5.85	5.85	0.2121	0.03626	8.9e-15
002B26-27	1	0%	6.8	6.8	6.8	6.8	0	0	NaN
002B36	1	0%	2.6	2.6	2.6	2.6	0	0	NaN
002B60	1	0%	5.9	5.9	5.9	5.9	0	0	NaN

# Summary Report

Constituent: Barium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	2.1	2.1	2.1	2.1	0	0	NaN
002B93	4	0%	5.6	6.3	5.95	5.95	0.3109	0.05225	-5.0e-15
002B94	5	0%	5.6	6.3	6.02	6.1	0.2775	0.04609	-0.6216
002B95	1	0%	5.5	5.5	5.5	5.5	0	0	NaN

# Summary Report

Constituent: Beryllium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 58%  
 Wells = 63  
 Minimum Value = 0.0017  
 Maximum Value = 0.0097  
 Mean Value = 0.003516  
 Median Value = 0.0027  
 Standard Deviation = 0.002673  
 Coefficient of Variation = 0.7602  
 Skewness = 1.717

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A03	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A08	2	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A101	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A103	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A106	1	100%	0.0027	0.0027	0.0027	0.0027	0	0	NaN
001A107	1	100%	0.0097	0.0097	0.0097	0.0097	0	0	NaN
001A109	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A109-111	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A110	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A111	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A113	1	100%	0.0097	0.0097	0.0097	0.0097	0	0	NaN
001A114	2	100%	0.0017	0.0097	0.0057	0.0057	0.005657	0.9924	0
001A116	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A117-119	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A122-124	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A13	9	100%	0.0017	0.0097	0.002589	0.0017	0.002667	1.03	2.475
001A135	1	100%	0.0027	0.0027	0.0027	0.0027	0	0	NaN
001A137	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A138	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A141	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A146	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A147	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A148	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A152	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A153	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A154	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A160	2	100%	0.0017	0.0097	0.0057	0.0057	0.005657	0.9924	0
001A161	1	100%	0.0027	0.0027	0.0027	0.0027	0	0	NaN
001A162	1	100%	0.0097	0.0097	0.0097	0.0097	0	0	NaN
001A163	1	100%	0.0027	0.0027	0.0027	0.0027	0	0	NaN
001A174	1	100%	0.0027	0.0027	0.0027	0.0027	0	0	NaN
001A178	1	100%	0.0097	0.0097	0.0097	0.0097	0	0	NaN
001A183	1	100%	0.0027	0.0027	0.0027	0.0027	0	0	NaN
001A44	1	100%	0.0027	0.0027	0.0027	0.0027	0	0	NaN
001A58	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
001A59	2	100%	0.0017	0.0097	0.0057	0.0057	0.005657	0.9924	0
002B	9	22%	0.0025	0.0097	0.004878	0.0035	0.002791	0.5721	1.194
002B05	1	100%	0.0097	0.0097	0.0097	0.0097	0	0	NaN
002B106	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
002B107	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
002B113	1	0%	0.0028	0.0028	0.0028	0.0028	0	0	NaN
002B114	1	0%	0.0023	0.0023	0.0023	0.0023	0	0	NaN
002B18	8	12%	0.0027	0.00485	0.003256	0.003	0.0006821	0.2095	1.824
002B18-19	2	50%	0.003	0.0097	0.00635	0.00635	0.004738	0.7461	4.4e-16
002B18-20	3	66%	0.0027	0.0097	0.007367	0.0097	0.004041	0.5486	-0.7071
002B19-21	1	0%	0.0025	0.0025	0.0025	0.0025	0	0	NaN
002B20-21	2	50%	0.0028	0.0097	0.00625	0.00625	0.004879	0.7806	-1.6e-16
002B21	1	0%	0.0026	0.0026	0.0026	0.0026	0	0	NaN
002B21-23	2	0%	0.0033	0.004	0.00365	0.00365	0.000495	0.1356	0
002B22-24	4	25%	0.0017	0.0028	0.002425	0.0026	0.0004992	0.2058	-0.9504
002B24-25	1	0%	0.0032	0.0032	0.0032	0.0032	0	0	NaN
002B25-27	4	25%	0.0026	0.0097	0.004675	0.0032	0.003378	0.7225	1.1
002B26	2	0%	0.0029	0.003	0.00295	0.00295	0.00007071	0.02397	0
002B26-27	1	0%	0.0032	0.0032	0.0032	0.0032	0	0	NaN
002B36	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
002B60	1	0%	0.0026	0.0026	0.0026	0.0026	0	0	NaN

# Summary Report

Constituent: Beryllium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.0017	0.0017	0.0017	0.0017	0	0	NaN
002B93	4	0%	0.0021	0.0034	0.0029	0.00305	0.0005715	0.1971	-0.7422
002B94	5	0%	0.0023	0.0037	0.00304	0.003	0.0005177	0.1703	-0.2074
002B95	1	0%	0.0024	0.0024	0.0024	0.0024	0	0	NaN

# Summary Report

Constituent: Cadmium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 99%  
 Wells = 63  
 Minimum Value = 0.0092  
 Maximum Value = 0.077  
 Mean Value = 0.01476  
 Median Value = 0.015  
 Standard Deviation = 0.006281  
 Coefficient of Variation = 0.4256  
 Skewness = 8.977

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A03	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A08	2	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A101	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A103	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A106	1	100%	0.0092	0.0092	0.0092	0.0092	0	0	NaN
001A107	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
001A109	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A109-111	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A110	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A111	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A113	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
001A114	2	100%	0.014	0.015	0.0145	0.0145	0.0007071	0.04877	0
001A116	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A117-119	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A122-124	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A13	9	100%	0.014	0.015	0.01489	0.015	0.0003333	0.02239	-2.475
001A135	1	100%	0.0092	0.0092	0.0092	0.0092	0	0	NaN
001A137	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A138	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A141	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A146	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A147	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A148	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A152	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A153	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A154	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A160	2	100%	0.014	0.015	0.0145	0.0145	0.0007071	0.04877	0
001A161	1	100%	0.0092	0.0092	0.0092	0.0092	0	0	NaN
001A162	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
001A163	1	100%	0.0092	0.0092	0.0092	0.0092	0	0	NaN
001A174	1	100%	0.0092	0.0092	0.0092	0.0092	0	0	NaN
001A178	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
001A183	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
001A44	1	100%	0.0092	0.0092	0.0092	0.0092	0	0	NaN
001A58	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
001A59	2	100%	0.014	0.015	0.0145	0.0145	0.0007071	0.04877	0
002B	9	100%	0.0092	0.015	0.01413	0.015	0.0019	0.1344	-2.245
002B05	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
002B106	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B107	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B113	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B114	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B18	8	100%	0.014	0.015	0.01487	0.015	0.0003536	0.02377	-2.268
002B18-19	2	100%	0.014	0.015	0.0145	0.0145	0.0007071	0.04877	0
002B18-20	3	100%	0.014	0.015	0.01433	0.014	0.0005773	0.04028	0.7071
002B19-21	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B20-21	2	50%	0.015	0.077	0.046	0.046	0.04384	0.9531	0
002B21	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B21-23	2	100%	0.0092	0.0092	0.0092	0.0092	0	0	NaN
002B22-24	4	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B24-25	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
002B25-27	4	100%	0.0092	0.015	0.0133	0.0145	0.002774	0.2085	-1.06
002B26	2	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B26-27	1	100%	0.014	0.014	0.014	0.014	0	0	NaN
002B36	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B60	1	100%	0.015	0.015	0.015	0.015	0	0	NaN

# Summary Report

Constituent: Cadmium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B93	4	100%	0.015	0.015	0.015	0.015	0	0	NaN
002B94	5	100%	0.0092	0.015	0.01384	0.015	0.002594	0.1874	-1.5
002B95	1	100%	0.015	0.015	0.015	0.015	0	0	NaN

# Summary Report

Constituent: Chromium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 0%  
 Wells = 63  
 Minimum Value = 0.029  
 Maximum Value = 1.3  
 Mean Value = 0.4955  
 Median Value = 0.49  
 Standard Deviation = 0.1143  
 Coefficient of Variation = 0.2307  
 Skewness = 2.681

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	0.52	0.52	0.52	0.52	0	0	NaN
001A03	1	0%	0.59	0.59	0.59	0.59	0	0	NaN
001A08	2	0%	0.37	0.75	0.56	0.56	0.2687	0.4798	-8.9e-16
001A101	1	0%	0.48	0.48	0.48	0.48	0	0	NaN
001A103	1	0%	0.44	0.44	0.44	0.44	0	0	NaN
001A106	1	0%	0.56	0.56	0.56	0.56	0	0	NaN
001A107	1	0%	0.66	0.66	0.66	0.66	0	0	NaN
001A109	1	0%	0.49	0.49	0.49	0.49	0	0	NaN
001A109-111	1	0%	0.49	0.49	0.49	0.49	0	0	NaN
001A110	1	0%	0.45	0.45	0.45	0.45	0	0	NaN
001A111	1	0%	0.52	0.52	0.52	0.52	0	0	NaN
001A113	1	0%	0.57	0.57	0.57	0.57	0	0	NaN
001A114	2	0%	0.55	0.66	0.605	0.605	0.07778	0.1286	3.1e-15
001A116	1	0%	0.46	0.46	0.46	0.46	0	0	NaN
001A117-119	1	0%	0.41	0.41	0.41	0.41	0	0	NaN
001A122-124	1	0%	0.48	0.48	0.48	0.48	0	0	NaN
001A13	9	0%	0.5	0.57	0.5333	0.54	0.025	0.04688	-0.04525
001A135	1	0%	0.41	0.41	0.41	0.41	0	0	NaN
001A137	1	0%	0.47	0.47	0.47	0.47	0	0	NaN
001A138	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
001A141	1	0%	0.48	0.48	0.48	0.48	0	0	NaN
001A146	1	0%	0.55	0.55	0.55	0.55	0	0	NaN
001A147	1	0%	0.51	0.51	0.51	0.51	0	0	NaN
001A148	1	0%	0.48	0.48	0.48	0.48	0	0	NaN
001A152	1	0%	0.47	0.47	0.47	0.47	0	0	NaN
001A153	1	0%	0.42	0.42	0.42	0.42	0	0	NaN
001A154	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
001A160	2	0%	0.58	0.67	0.625	0.625	0.06364	0.1018	0
001A161	1	0%	0.62	0.62	0.62	0.62	0	0	NaN
001A162	1	0%	0.58	0.58	0.58	0.58	0	0	NaN
001A163	1	0%	0.43	0.43	0.43	0.43	0	0	NaN
001A174	1	0%	0.53	0.53	0.53	0.53	0	0	NaN
001A178	1	0%	0.56	0.56	0.56	0.56	0	0	NaN
001A183	1	0%	0.58	0.58	0.58	0.58	0	0	NaN
001A44	1	0%	0.61	0.61	0.61	0.61	0	0	NaN
001A58	1	0%	0.39	0.39	0.39	0.39	0	0	NaN
001A59	2	0%	0.6	0.6	0.6	0.6	0	0	NaN
002B	9	0%	0.31	0.52	0.4222	0.43	0.06016	0.1425	-0.5
002B05	1	0%	1.3	1.3	1.3	1.3	0	0	NaN
002B106	1	0%	0.28	0.28	0.28	0.28	0	0	NaN
002B107	1	0%	0.56	0.56	0.56	0.56	0	0	NaN
002B113	1	0%	0.52	0.52	0.52	0.52	0	0	NaN
002B114	1	0%	0.46	0.46	0.46	0.46	0	0	NaN
002B18	8	0%	0.41	0.54	0.4638	0.445	0.05449	0.1175	0.3989
002B18-19	2	0%	0.44	0.47	0.455	0.455	0.02121	0.04662	5.6e-15
002B18-20	3	0%	0.46	0.52	0.4867	0.48	0.03055	0.06278	0.3818
002B19-21	1	0%	0.5	0.5	0.5	0.5	0	0	NaN
002B20-21	2	0%	0.45	0.5	0.475	0.475	0.03536	0.07443	3.4e-15
002B21	1	0%	0.47	0.47	0.47	0.47	0	0	NaN
002B21-23	2	0%	0.46	0.48	0.47	0.47	0.01414	0.03009	8.4e-15
002B22-24	4	25%	0.029	0.51	0.3797	0.49	0.2342	0.6166	-1.145
002B24-25	1	0%	0.47	0.47	0.47	0.47	0	0	NaN
002B25-27	4	0%	0.44	0.51	0.475	0.475	0.03512	0.07393	2.7e-15
002B26	2	0%	0.46	0.5	0.48	0.48	0.02828	0.05893	4.2e-15
002B26-27	1	0%	0.49	0.49	0.49	0.49	0	0	NaN
002B36	1	0%	0.51	0.51	0.51	0.51	0	0	NaN
002B60	1	0%	0.49	0.49	0.49	0.49	0	0	NaN
002B67	1	0%	0.55	0.55	0.55	0.55	0	0	NaN

# Summary Report

Constituent: Chromium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	0.47	0.47	0.47	0.47	0	0	NaN
002B93	4	0%	0.42	0.48	0.4425	0.435	0.0263	0.05943	0.8332
002B94	5	0%	0.42	0.5	0.458	0.46	0.03347	0.07307	0.05906
002B95	1	0%	0.41	0.41	0.41	0.41	0	0	NaN

# Summary Report

Constituent: Cobalt Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 3%  
 Wells = 63  
 Minimum Value = 0.008  
 Maximum Value = 0.11  
 Mean Value = 0.03324  
 Median Value = 0.032  
 Standard Deviation = 0.01319  
 Coefficient of Variation = 0.3968  
 Skewness = 2.053

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	0.029	0.029	0.029	0.029	0	0	NaN
001A03	1	0%	0.036	0.036	0.036	0.036	0	0	NaN
001A08	2	0%	0.035	0.039	0.037	0.037	0.002828	0.07644	-5.3e-15
001A101	1	0%	0.031	0.031	0.031	0.031	0	0	NaN
001A103	1	0%	0.034	0.034	0.034	0.034	0	0	NaN
001A106	1	0%	0.043	0.043	0.043	0.043	0	0	NaN
001A107	1	0%	0.055	0.055	0.055	0.055	0	0	NaN
001A109	1	0%	0.024	0.024	0.024	0.024	0	0	NaN
001A109-111	1	0%	0.027	0.027	0.027	0.027	0	0	NaN
001A110	1	0%	0.037	0.037	0.037	0.037	0	0	NaN
001A111	1	0%	0.035	0.035	0.035	0.035	0	0	NaN
001A113	1	0%	0.038	0.038	0.038	0.038	0	0	NaN
001A114	2	0%	0.041	0.066	0.0535	0.0535	0.01768	0.3304	-8.7e-16
001A116	1	0%	0.03	0.03	0.03	0.03	0	0	NaN
001A117-119	1	0%	0.02	0.02	0.02	0.02	0	0	NaN
001A122-124	1	0%	0.026	0.026	0.026	0.026	0	0	NaN
001A13	9	0%	0.028	0.056	0.03711	0.037	0.009062	0.2442	1.004
001A135	1	0%	0.035	0.035	0.035	0.035	0	0	NaN
001A137	1	0%	0.029	0.029	0.029	0.029	0	0	NaN
001A138	1	0%	0.033	0.033	0.033	0.033	0	0	NaN
001A141	1	0%	0.029	0.029	0.029	0.029	0	0	NaN
001A146	1	0%	0.034	0.034	0.034	0.034	0	0	NaN
001A147	1	0%	0.037	0.037	0.037	0.037	0	0	NaN
001A148	1	0%	0.032	0.032	0.032	0.032	0	0	NaN
001A152	1	0%	0.031	0.031	0.031	0.031	0	0	NaN
001A153	1	0%	0.029	0.029	0.029	0.029	0	0	NaN
001A154	1	0%	0.036	0.036	0.036	0.036	0	0	NaN
001A160	2	0%	0.03	0.044	0.037	0.037	0.009899	0.2676	0
001A161	1	0%	0.054	0.054	0.054	0.054	0	0	NaN
001A162	1	0%	0.055	0.055	0.055	0.055	0	0	NaN
001A163	1	0%	0.039	0.039	0.039	0.039	0	0	NaN
001A174	1	0%	0.043	0.043	0.043	0.043	0	0	NaN
001A178	1	0%	0.039	0.039	0.039	0.039	0	0	NaN
001A183	1	0%	0.039	0.039	0.039	0.039	0	0	NaN
001A44	1	0%	0.042	0.042	0.042	0.042	0	0	NaN
001A58	1	0%	0.034	0.034	0.034	0.034	0	0	NaN
001A59	2	0%	0.045	0.063	0.054	0.054	0.01273	0.2357	0
002B	9	11%	0.008	0.046	0.02578	0.024	0.01178	0.4569	0.4003
002B05	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
002B106	1	0%	0.022	0.022	0.022	0.022	0	0	NaN
002B107	1	0%	0.041	0.041	0.041	0.041	0	0	NaN
002B113	1	0%	0.026	0.026	0.026	0.026	0	0	NaN
002B114	1	0%	0.023	0.023	0.023	0.023	0	0	NaN
002B18	8	12%	0.013	0.045	0.02563	0.024	0.009471	0.3696	0.9118
002B18-19	2	0%	0.016	0.056	0.036	0.036	0.02828	0.7857	-5.3e-16
002B18-20	3	0%	0.026	0.045	0.034	0.031	0.009849	0.2897	0.5077
002B19-21	1	0%	0.037	0.037	0.037	0.037	0	0	NaN
002B20-21	2	0%	0.018	0.054	0.036	0.036	0.02546	0.7071	2.9e-16
002B21	1	0%	0.02	0.02	0.02	0.02	0	0	NaN
002B21-23	2	0%	0.032	0.032	0.032	0.032	0	0	NaN
002B22-24	4	25%	0.016	0.039	0.0235	0.0195	0.01047	0.4456	1.062
002B24-25	1	0%	0.029	0.029	0.029	0.029	0	0	NaN
002B25-27	4	0%	0.019	0.045	0.0305	0.029	0.01258	0.4126	0.1826
002B26	2	0%	0.021	0.028	0.0245	0.0245	0.00495	0.202	0
002B26-27	1	0%	0.038	0.038	0.038	0.038	0	0	NaN
002B36	1	0%	0.038	0.038	0.038	0.038	0	0	NaN
002B60	1	0%	0.032	0.032	0.032	0.032	0	0	NaN

# Summary Report

Constituent: Cobalt Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	0.041	0.041	0.041	0.041	0	0	NaN
002B93	4	0%	0.019	0.029	0.02475	0.0255	0.004646	0.1877	-0.3239
002B94	5	0%	0.017	0.036	0.0262	0.024	0.007694	0.2937	0.1674
002B95	1	0%	0.023	0.023	0.023	0.023	0	0	NaN

# Summary Report

Constituent: Copper Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 36%  
 Wells = 63  
 Minimum Value = 0.02  
 Maximum Value = 0.28  
 Mean Value = 0.07176  
 Median Value = 0.073  
 Standard Deviation = 0.04675  
 Coefficient of Variation = 0.6514  
 Skewness = 1.409

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	0.027	0.027	0.027	0.027	0	0	NaN
001A03	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A08	2	0%	0.058	0.28	0.169	0.169	0.157	0.9289	0
001A101	1	0%	0.077	0.077	0.077	0.077	0	0	NaN
001A103	1	0%	0.066	0.066	0.066	0.066	0	0	NaN
001A106	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
001A107	1	100%	0.099	0.099	0.099	0.099	0	0	NaN
001A109	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
001A109-111	1	0%	0.088	0.088	0.088	0.088	0	0	NaN
001A110	1	0%	0.085	0.085	0.085	0.085	0	0	NaN
001A111	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
001A113	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
001A114	2	0%	0.094	0.15	0.122	0.122	0.0396	0.3246	0
001A116	1	0%	0.054	0.054	0.054	0.054	0	0	NaN
001A117-119	1	0%	0.073	0.073	0.073	0.073	0	0	NaN
001A122-124	1	0%	0.085	0.085	0.085	0.085	0	0	NaN
001A13	9	55%	0.02	0.099	0.03544	0.021	0.02799	0.7897	1.586
001A135	1	0%	0.095	0.095	0.095	0.095	0	0	NaN
001A137	1	0%	0.023	0.023	0.023	0.023	0	0	NaN
001A138	1	0%	0.03	0.03	0.03	0.03	0	0	NaN
001A141	1	0%	0.031	0.031	0.031	0.031	0	0	NaN
001A146	1	0%	0.06	0.06	0.06	0.06	0	0	NaN
001A147	1	0%	0.27	0.27	0.27	0.27	0	0	NaN
001A148	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
001A152	1	0%	0.091	0.091	0.091	0.091	0	0	NaN
001A153	1	0%	0.084	0.084	0.084	0.084	0	0	NaN
001A154	1	0%	0.092	0.092	0.092	0.092	0	0	NaN
001A160	2	0%	0.11	0.13	0.12	0.12	0.01414	0.1179	2.1e-15
001A161	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
001A162	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
001A163	1	0%	0.095	0.095	0.095	0.095	0	0	NaN
001A174	1	100%	0.099	0.099	0.099	0.099	0	0	NaN
001A178	1	100%	0.099	0.099	0.099	0.099	0	0	NaN
001A183	1	100%	0.099	0.099	0.099	0.099	0	0	NaN
001A44	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
001A58	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
001A59	2	50%	0.099	0.12	0.1095	0.1095	0.01485	0.1356	0
002B	9	88%	0.02	0.099	0.04044	0.02	0.03427	0.8474	1.154
002B05	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
002B106	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B107	1	0%	0.037	0.037	0.037	0.037	0	0	NaN
002B113	1	0%	0.063	0.063	0.063	0.063	0	0	NaN
002B114	1	100%	0.02	0.02	0.02	0.02	0	0	NaN
002B18	8	75%	0.02	0.11	0.05112	0.02	0.04308	0.8426	0.5345
002B18-19	2	50%	0.067	0.099	0.083	0.083	0.02263	0.2726	0
002B18-20	3	66%	0.057	0.099	0.085	0.099	0.02425	0.2853	-0.7071
002B19-21	1	0%	0.095	0.095	0.095	0.095	0	0	NaN
002B20-21	2	0%	0.11	0.13	0.12	0.12	0.01414	0.1179	2.1e-15
002B21	1	0%	0.076	0.076	0.076	0.076	0	0	NaN
002B21-23	2	50%	0.071	0.099	0.085	0.085	0.0198	0.2329	-1.5e-15
002B22-24	4	0%	0.036	0.11	0.0685	0.064	0.03083	0.45	0.4799
002B24-25	1	100%	0.099	0.099	0.099	0.099	0	0	NaN
002B25-27	4	25%	0.043	0.11	0.08775	0.099	0.03028	0.3451	-1.05
002B26	2	0%	0.046	0.055	0.0505	0.0505	0.006364	0.126	-2.3e-15
002B26-27	1	100%	0.099	0.099	0.099	0.099	0	0	NaN
002B36	1	0%	0.051	0.051	0.051	0.051	0	0	NaN
002B60	1	0%	0.064	0.064	0.064	0.064	0	0	NaN

# Summary Report

Constituent: Copper Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	0.055	0.055	0.055	0.055	0	0	NaN
002B93	4	25%	0.02	0.075	0.03575	0.024	0.02629	0.7353	1.124
002B94	5	60%	0.02	0.1	0.05	0.02	0.04123	0.8246	0.4307
002B95	1	100%	0.02	0.02	0.02	0.02	0	0	NaN

# Summary Report

Constituent: Lead Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 55%  
 Wells = 63  
 Minimum Value = 0.034  
 Maximum Value = 10  
 Mean Value = 0.163  
 Median Value = 0.043  
 Standard Deviation = 0.954  
 Coefficient of Variation = 5.852  
 Skewness = 10.2

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A03	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A08	2	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A101	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A103	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A106	1	100%	0.04	0.04	0.04	0.04	0	0	NaN
001A107	1	100%	0.054	0.054	0.054	0.054	0	0	NaN
001A109	1	0%	0.037	0.037	0.037	0.037	0	0	NaN
001A109-111	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A110	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A111	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A113	1	100%	0.054	0.054	0.054	0.054	0	0	NaN
001A114	2	100%	0.034	0.054	0.044	0.044	0.01414	0.3214	0
001A116	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A117-119	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A122-124	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A13	9	88%	0.034	0.06	0.03689	0.034	0.008667	0.2349	2.475
001A135	1	100%	0.04	0.04	0.04	0.04	0	0	NaN
001A137	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A138	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A141	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A146	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A147	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A148	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A152	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A153	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A154	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A160	2	100%	0.034	0.054	0.044	0.044	0.01414	0.3214	0
001A161	1	100%	0.04	0.04	0.04	0.04	0	0	NaN
001A162	1	100%	0.054	0.054	0.054	0.054	0	0	NaN
001A163	1	100%	0.04	0.04	0.04	0.04	0	0	NaN
001A174	1	100%	0.04	0.04	0.04	0.04	0	0	NaN
001A178	1	100%	0.04	0.04	0.04	0.04	0	0	NaN
001A183	1	100%	0.054	0.054	0.054	0.054	0	0	NaN
001A44	1	100%	0.04	0.04	0.04	0.04	0	0	NaN
001A58	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
001A59	2	50%	0.043	0.054	0.0485	0.0485	0.007778	0.1604	0
002B	9	0%	0.053	0.12	0.09056	0.094	0.02312	0.2553	-0.2862
002B05	1	0%	10	10	10	10	0	0	NaN
002B106	1	0%	0.058	0.058	0.058	0.058	0	0	NaN
002B107	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
002B113	1	0%	0.24	0.24	0.24	0.24	0	0	NaN
002B114	1	0%	0.2	0.2	0.2	0.2	0	0	NaN
002B18	8	25%	0.034	0.73	0.1648	0.077	0.235	1.426	2.037
002B18-19	2	0%	0.097	0.16	0.1285	0.1285	0.04455	0.3467	0
002B18-20	3	0%	0.059	0.12	0.086	0.079	0.0311	0.3616	0.3926
002B19-21	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
002B20-21	2	0%	0.098	0.17	0.134	0.134	0.05091	0.3799	0
002B21	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
002B21-23	2	100%	0.04	0.04	0.04	0.04	0	0	NaN
002B22-24	4	25%	0.034	0.11	0.091	0.11	0.038	0.4176	-1.155
002B24-25	1	100%	0.054	0.054	0.054	0.054	0	0	NaN
002B25-27	4	0%	0.06	0.096	0.078	0.078	0.01722	0.2208	0
002B26	2	100%	0.034	0.034	0.034	0.034	0	0	NaN
002B26-27	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
002B36	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
002B60	1	0%	0.13	0.13	0.13	0.13	0	0	NaN

# Summary Report

Constituent: Lead Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.034	0.034	0.034	0.034	0	0	NaN
002B93	4	25%	0.034	0.17	0.116	0.13	0.06009	0.518	-0.6295
002B94	5	20%	0.034	0.14	0.0862	0.084	0.03869	0.4489	0.06659
002B95	1	100%	0.034	0.034	0.034	0.034	0	0	NaN

# Summary Report

Constituent: Mercury Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 94%  
 Wells = 63  
 Minimum Value = 0.011  
 Maximum Value = 0.19  
 Mean Value = 0.02361  
 Median Value = 0.011  
 Standard Deviation = 0.03192  
 Coefficient of Variation = 1.352  
 Skewness = 4.285

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A03	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A08	2	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A101	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A103	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A106	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
001A107	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
001A109	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A109-111	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A110	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A111	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A113	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
001A114	2	100%	0.011	0.039	0.025	0.025	0.0198	0.792	0
001A116	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A117-119	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A122-124	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A13	9	100%	0.011	0.016	0.01322	0.011	0.002635	0.1993	0.2236
001A135	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A137	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A138	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A141	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A146	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A147	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A148	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A152	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A153	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A154	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A160	2	100%	0.011	0.039	0.025	0.025	0.0198	0.792	0
001A161	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A162	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
001A163	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A174	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
001A178	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
001A183	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
001A44	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
001A58	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
001A59	2	50%	0.011	0.19	0.1005	0.1005	0.1266	1.259	0
002B	9	100%	0.011	0.039	0.01778	0.011	0.01214	0.683	1.277
002B05	1	0%	0.049	0.049	0.049	0.049	0	0	NaN
002B106	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
002B107	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
002B113	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B114	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B18	8	75%	0.011	0.19	0.03625	0.016	0.0622	1.716	2.257
002B18-19	2	50%	0.011	0.13	0.0705	0.0705	0.08415	1.194	0
002B18-20	3	100%	0.011	0.039	0.02967	0.039	0.01617	0.5449	-0.7071
002B19-21	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
002B20-21	2	50%	0.011	0.19	0.1005	0.1005	0.1266	1.259	0
002B21	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
002B21-23	2	100%	0.039	0.039	0.039	0.039	0	0	NaN
002B22-24	4	100%	0.011	0.016	0.0135	0.0135	0.002887	0.2138	0
002B24-25	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
002B25-27	4	100%	0.011	0.016	0.01225	0.011	0.0025	0.2041	1.155
002B26	2	100%	0.011	0.011	0.011	0.011	0	0	NaN
002B26-27	1	100%	0.039	0.039	0.039	0.039	0	0	NaN
002B36	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
002B60	1	100%	0.011	0.011	0.011	0.011	0	0	NaN

# Summary Report

Constituent: Mercury Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.011	0.011	0.011	0.011	0	0	NaN
002B93	4	100%	0.011	0.016	0.01225	0.011	0.0025	0.2041	1.155
002B94	5	100%	0.011	0.016	0.013	0.011	0.002739	0.2107	0.4082
002B95	1	100%	0.011	0.011	0.011	0.011	0	0	NaN

# Summary Report

Constituent: Molybdenum Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 39%  
 Wells = 63  
 Minimum Value = 0.0245  
 Maximum Value = 0.11  
 Mean Value = 0.05221  
 Median Value = 0.049  
 Standard Deviation = 0.01659  
 Coefficient of Variation = 0.3178  
 Skewness = 1.352

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A03	1	0%	0.04	0.04	0.04	0.04	0	0	NaN
001A08	2	50%	0.038	0.074	0.056	0.056	0.02546	0.4546	0
001A101	1	0%	0.052	0.052	0.052	0.052	0	0	NaN
001A103	1	0%	0.055	0.055	0.055	0.055	0	0	NaN
001A106	1	100%	0.025	0.025	0.025	0.025	0	0	NaN
001A107	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
001A109	1	0%	0.043	0.043	0.043	0.043	0	0	NaN
001A109-111	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A110	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A111	1	0%	0.041	0.041	0.041	0.041	0	0	NaN
001A113	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
001A114	2	0%	0.045	0.057	0.051	0.051	0.008485	0.1664	-1.8e-15
001A116	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A117-119	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A122-124	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A13	9	55%	0.038	0.081	0.049	0.039	0.01742	0.3555	1.208
001A135	1	0%	0.062	0.062	0.062	0.062	0	0	NaN
001A137	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A138	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A141	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A146	1	0%	0.038	0.038	0.038	0.038	0	0	NaN
001A147	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A148	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A152	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
001A153	1	0%	0.049	0.049	0.049	0.049	0	0	NaN
001A154	1	0%	0.054	0.054	0.054	0.054	0	0	NaN
001A160	2	0%	0.04	0.058	0.049	0.049	0.01273	0.2598	0
001A161	1	0%	0.057	0.057	0.057	0.057	0	0	NaN
001A162	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
001A163	1	0%	0.057	0.057	0.057	0.057	0	0	NaN
001A174	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
001A178	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
001A183	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
001A44	1	0%	0.049	0.049	0.049	0.049	0	0	NaN
001A58	1	0%	0.039	0.039	0.039	0.039	0	0	NaN
001A59	2	50%	0.049	0.056	0.0525	0.0525	0.00495	0.09428	3.0e-15
002B	9	22%	0.038	0.072	0.05078	0.049	0.01174	0.2313	0.6193
002B05	1	0%	0.086	0.086	0.086	0.086	0	0	NaN
002B106	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
002B107	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
002B113	1	0%	0.069	0.069	0.069	0.069	0	0	NaN
002B114	1	0%	0.061	0.061	0.061	0.061	0	0	NaN
002B18	8	12%	0.0245	0.086	0.05656	0.0495	0.02111	0.3732	0.1322
002B18-19	2	50%	0.049	0.055	0.052	0.052	0.004243	0.08159	3.5e-15
002B18-20	3	33%	0.049	0.067	0.05567	0.051	0.009866	0.1772	0.6746
002B19-21	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
002B20-21	2	50%	0.049	0.069	0.059	0.059	0.01414	0.2397	0
002B21	1	0%	0.057	0.057	0.057	0.057	0	0	NaN
002B21-23	2	100%	0.025	0.049	0.037	0.037	0.01697	0.4587	0
002B22-24	4	25%	0.038	0.1	0.0645	0.06	0.02584	0.4006	0.5789
002B24-25	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
002B25-27	4	25%	0.049	0.11	0.071	0.0625	0.02811	0.3959	0.7249
002B26	2	0%	0.06	0.065	0.0625	0.0625	0.003536	0.05657	0
002B26-27	1	100%	0.049	0.049	0.049	0.049	0	0	NaN
002B36	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
002B60	1	0%	0.074	0.074	0.074	0.074	0	0	NaN

# Summary Report

Constituent: Molybdenum Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.038	0.038	0.038	0.038	0	0	NaN
002B93	4	0%	0.041	0.067	0.058	0.062	0.01183	0.204	-0.8923
002B94	5	0%	0.038	0.1	0.0632	0.06	0.02309	0.3654	0.7359
002B95	1	0%	0.041	0.041	0.041	0.041	0	0	NaN

# Summary Report

Constituent: Nickel Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 8%  
 Wells = 63  
 Minimum Value = 0.016  
 Maximum Value = 0.32  
 Mean Value = 0.1602  
 Median Value = 0.15  
 Standard Deviation = 0.05905  
 Coefficient of Variation = 0.3685  
 Skewness = 0.2438

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
001A03	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A08	2	0%	0.14	0.28	0.21	0.21	0.09899	0.4714	0
001A101	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
001A103	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
001A106	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
001A107	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
001A109	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A109-111	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A110	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
001A111	1	0%	0.2	0.2	0.2	0.2	0	0	NaN
001A113	1	0%	0.25	0.25	0.25	0.25	0	0	NaN
001A114	2	0%	0.24	0.28	0.26	0.26	0.02828	0.1088	0
001A116	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
001A117-119	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A122-124	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A13	9	0%	0.13	0.32	0.2056	0.21	0.05659	0.2753	0.4758
001A135	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
001A137	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
001A138	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A141	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A146	1	0%	0.2	0.2	0.2	0.2	0	0	NaN
001A147	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A148	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A152	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
001A153	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A154	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A160	2	0%	0.24	0.25	0.245	0.245	0.007071	0.02886	0
001A161	1	0%	0.23	0.23	0.23	0.23	0	0	NaN
001A162	1	0%	0.22	0.22	0.22	0.22	0	0	NaN
001A163	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A174	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A178	1	0%	0.22	0.22	0.22	0.22	0	0	NaN
001A183	1	0%	0.26	0.26	0.26	0.26	0	0	NaN
001A44	1	0%	0.22	0.22	0.22	0.22	0	0	NaN
001A58	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A59	2	0%	0.21	0.24	0.225	0.225	0.02121	0.09428	2.8e-15
002B	9	11%	0.065	0.11	0.09111	0.097	0.014	0.1537	-0.5596
002B05	1	0%	0.28	0.28	0.28	0.28	0	0	NaN
002B106	1	0%	0.097	0.097	0.097	0.097	0	0	NaN
002B107	1	0%	0.22	0.22	0.22	0.22	0	0	NaN
002B113	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
002B114	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
002B18	8	12%	0.038	0.25	0.1099	0.0975	0.06637	0.6041	1.151
002B18-19	2	0%	0.11	0.13	0.12	0.12	0.01414	0.1179	2.1e-15
002B18-20	3	33%	0.11	0.13	0.12	0.12	0.01	0.08333	-2.9e-7
002B19-21	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
002B20-21	2	0%	0.12	0.24	0.18	0.18	0.08485	0.4714	0
002B21	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
002B21-23	2	100%	0.13	0.13	0.13	0.13	0	0	NaN
002B22-24	4	25%	0.016	0.16	0.1065	0.125	0.06374	0.5985	-0.8183
002B24-25	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
002B25-27	4	25%	0.12	0.17	0.135	0.125	0.0238	0.1763	1.027
002B26	2	0%	0.11	0.13	0.12	0.12	0.01414	0.1179	2.1e-15
002B26-27	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
002B36	1	0%	0.23	0.23	0.23	0.23	0	0	NaN
002B60	1	0%	0.14	0.14	0.14	0.14	0	0	NaN

# Summary Report

Constituent: Nickel Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
002B93	4	0%	0.096	0.13	0.109	0.105	0.01519	0.1393	0.6961
002B94	5	20%	0.095	0.13	0.111	0.1	0.01746	0.1573	0.3652
002B95	1	0%	0.093	0.093	0.093	0.093	0	0	NaN

# Summary Report

Constituent: Selenium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 72%  
 Wells = 63  
 Minimum Value = 0.023  
 Maximum Value = 0.21  
 Mean Value = 0.1182  
 Median Value = 0.098  
 Standard Deviation = 0.03951  
 Coefficient of Variation = 0.3342  
 Skewness = 0.5908

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A03	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A08	2	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A101	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A103	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A106	1	100%	0.18	0.18	0.18	0.18	0	0	NaN
001A107	1	100%	0.023	0.023	0.023	0.023	0	0	NaN
001A109	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A109-111	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A110	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A111	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A113	1	0%	0.06	0.06	0.06	0.06	0	0	NaN
001A114	2	50%	0.094	0.098	0.096	0.096	0.002828	0.02946	0
001A116	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A117-119	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A122-124	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A13	9	77%	0.058	0.13	0.09711	0.098	0.01809	0.1862	-0.5434
001A135	1	100%	0.18	0.18	0.18	0.18	0	0	NaN
001A137	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A138	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A141	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A146	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A147	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A148	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A152	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A153	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A154	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A160	2	100%	0.023	0.098	0.0605	0.0605	0.05303	0.8766	0
001A161	1	100%	0.18	0.18	0.18	0.18	0	0	NaN
001A162	1	0%	0.045	0.045	0.045	0.045	0	0	NaN
001A163	1	100%	0.18	0.18	0.18	0.18	0	0	NaN
001A174	1	100%	0.18	0.18	0.18	0.18	0	0	NaN
001A178	1	100%	0.18	0.18	0.18	0.18	0	0	NaN
001A183	1	100%	0.18	0.18	0.18	0.18	0	0	NaN
001A44	1	100%	0.18	0.18	0.18	0.18	0	0	NaN
001A58	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
001A59	2	50%	0.067	0.098	0.0825	0.0825	0.02192	0.2657	0
002B	9	33%	0.098	0.21	0.1518	0.15	0.0418	0.2754	0.1709
002B05	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
002B106	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
002B107	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
002B113	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
002B114	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
002B18	8	75%	0.098	0.16	0.1057	0.098	0.02192	0.2073	2.268
002B18-19	2	50%	0.098	0.13	0.114	0.114	0.02263	0.1985	0
002B18-20	3	33%	0.18	0.18	0.18	0.18	4.1e-9	2.3e-8	0.7071
002B19-21	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
002B20-21	2	50%	0.098	0.15	0.124	0.124	0.03677	0.2965	0
002B21	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
002B21-23	2	100%	0.18	0.18	0.18	0.18	0	0	NaN
002B22-24	4	75%	0.098	0.17	0.116	0.098	0.036	0.3103	1.155
002B24-25	1	100%	0.18	0.18	0.18	0.18	0	0	NaN
002B25-27	4	50%	0.098	0.2	0.1495	0.15	0.04831	0.3232	-0.01742
002B26	2	100%	0.098	0.098	0.098	0.098	0	0	NaN
002B26-27	1	100%	0.18	0.18	0.18	0.18	0	0	NaN
002B36	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
002B60	1	100%	0.098	0.098	0.098	0.098	0	0	NaN

# Summary Report

Constituent: Selenium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.098	0.098	0.098	0.098	0	0	NaN
002B93	4	0%	0.099	0.13	0.1073	0.1	0.01517	0.1415	1.151
002B94	5	60%	0.098	0.18	0.1212	0.1	0.03557	0.2935	1.053
002B95	1	100%	0.098	0.098	0.098	0.098	0	0	NaN

# Summary Report

Constituent: Silver Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 97%  
 Wells = 63  
 Minimum Value = 0.016  
 Maximum Value = 1.7  
 Mean Value = 0.03361  
 Median Value = 0.016  
 Standard Deviation = 0.1612  
 Coefficient of Variation = 4.796  
 Skewness = 10.28

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A03	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A08	2	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A101	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A103	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A106	1	100%	0.027	0.027	0.027	0.027	0	0	NaN
001A107	1	100%	0.018	0.018	0.018	0.018	0	0	NaN
001A109	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A109-111	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A110	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A111	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A113	1	100%	0.018	0.018	0.018	0.018	0	0	NaN
001A114	2	100%	0.016	0.018	0.017	0.017	0.001414	0.08319	0
001A116	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A117-119	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A122-124	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A13	9	88%	0.016	0.044	0.01933	0.016	0.009274	0.4797	2.452
001A135	1	100%	0.027	0.027	0.027	0.027	0	0	NaN
001A137	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A138	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A141	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A146	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A147	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A148	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A152	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A153	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A154	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A160	2	100%	0.016	0.018	0.017	0.017	0.001414	0.08319	0
001A161	1	100%	0.027	0.027	0.027	0.027	0	0	NaN
001A162	1	100%	0.018	0.018	0.018	0.018	0	0	NaN
001A163	1	100%	0.027	0.027	0.027	0.027	0	0	NaN
001A174	1	100%	0.027	0.027	0.027	0.027	0	0	NaN
001A178	1	100%	0.018	0.018	0.018	0.018	0	0	NaN
001A183	1	100%	0.027	0.027	0.027	0.027	0	0	NaN
001A44	1	100%	0.027	0.027	0.027	0.027	0	0	NaN
001A58	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
001A59	2	100%	0.016	0.018	0.017	0.017	0.001414	0.08319	0
002B	9	100%	0.016	0.027	0.01767	0.016	0.003606	0.2041	2.221
002B05	1	0%	0.028	0.028	0.028	0.028	0	0	NaN
002B106	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B107	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B113	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B114	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B18	8	100%	0.016	0.018	0.01625	0.016	0.0007071	0.04351	2.268
002B18-19	2	100%	0.016	0.018	0.017	0.017	0.001414	0.08319	0
002B18-20	3	66%	0.018	1.7	0.5787	0.018	0.9711	1.678	0.7071
002B19-21	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B20-21	2	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B21	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B21-23	2	100%	0.027	0.027	0.027	0.027	0	0	NaN
002B22-24	4	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B24-25	1	100%	0.027	0.027	0.027	0.027	0	0	NaN
002B25-27	4	100%	0.016	0.027	0.01925	0.017	0.005252	0.2728	1.049
002B26	2	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B26-27	1	100%	0.027	0.027	0.027	0.027	0	0	NaN
002B36	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B60	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B67	1	100%	0.027	0.027	0.027	0.027	0	0	NaN

# Summary Report

Constituent: Silver Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B93	4	100%	0.016	0.016	0.016	0.016	0	0	NaN
002B94	5	100%	0.016	0.027	0.0182	0.016	0.004919	0.2703	1.5
002B95	1	100%	0.016	0.016	0.016	0.016	0	0	NaN

# Summary Report

Constituent: Thallium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 99%  
 Wells = 63  
 Minimum Value = 0.048  
 Maximum Value = 0.64  
 Mean Value = 0.09178  
 Median Value = 0.079  
 Standard Deviation = 0.06748  
 Coefficient of Variation = 0.7353  
 Skewness = 5.392

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A03	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A08	2	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A101	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A103	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A106	1	100%	0.2	0.2	0.2	0.2	0	0	NaN
001A107	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
001A109	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A109-111	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A110	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A111	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A113	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
001A114	2	100%	0.048	0.079	0.0635	0.0635	0.02192	0.3452	0
001A116	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A117-119	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A122-124	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A13	9	88%	0.048	0.64	0.1379	0.079	0.1886	1.368	2.46
001A135	1	100%	0.2	0.2	0.2	0.2	0	0	NaN
001A137	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A138	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A141	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A146	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A147	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A148	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A152	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A153	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A154	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A160	2	100%	0.048	0.079	0.0635	0.0635	0.02192	0.3452	0
001A161	1	100%	0.2	0.2	0.2	0.2	0	0	NaN
001A162	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
001A163	1	100%	0.2	0.2	0.2	0.2	0	0	NaN
001A174	1	100%	0.2	0.2	0.2	0.2	0	0	NaN
001A178	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
001A183	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
001A44	1	100%	0.2	0.2	0.2	0.2	0	0	NaN
001A58	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
001A59	2	100%	0.048	0.079	0.0635	0.0635	0.02192	0.3452	0
002B	9	100%	0.048	0.2	0.08556	0.079	0.04497	0.5256	2.029
002B05	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
002B106	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B107	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B113	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B114	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B18	8	100%	0.048	0.079	0.07513	0.079	0.01096	0.1459	-2.268
002B18-19	2	100%	0.048	0.079	0.0635	0.0635	0.02192	0.3452	0
002B18-20	3	100%	0.048	0.079	0.05833	0.048	0.0179	0.3068	0.7071
002B19-21	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B20-21	2	100%	0.048	0.079	0.0635	0.0635	0.02192	0.3452	0
002B21	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B21-23	2	100%	0.2	0.2	0.2	0.2	0	0	NaN
002B22-24	4	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B24-25	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
002B25-27	4	100%	0.048	0.2	0.1015	0.079	0.06727	0.6628	0.9858
002B26	2	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B26-27	1	100%	0.048	0.048	0.048	0.048	0	0	NaN
002B36	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B60	1	100%	0.079	0.079	0.079	0.079	0	0	NaN

# Summary Report

Constituent: Thallium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B93	4	100%	0.079	0.079	0.079	0.079	0	0	NaN
002B94	5	100%	0.079	0.2	0.1032	0.079	0.05411	0.5243	1.5
002B95	1	100%	0.079	0.079	0.079	0.079	0	0	NaN

# Summary Report

Constituent: Vanadium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 0%  
 Wells = 63  
 Minimum Value = 0.026  
 Maximum Value = 0.63  
 Mean Value = 0.236  
 Median Value = 0.22  
 Standard Deviation = 0.08259  
 Coefficient of Variation = 0.3499  
 Skewness = 0.8011

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
001A03	1	0%	0.2	0.2	0.2	0.2	0	0	NaN
001A08	2	0%	0.14	0.22	0.18	0.18	0.05657	0.3143	1.1e-15
001A101	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
001A103	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A106	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A107	1	0%	0.2	0.2	0.2	0.2	0	0	NaN
001A109	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A109-111	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A110	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A111	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
001A113	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
001A114	2	0%	0.22	0.22	0.22	0.22	0	0	NaN
001A116	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
001A117-119	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
001A122-124	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A13	9	0%	0.18	0.2	0.1889	0.19	0.006009	0.03181	-0.01509
001A135	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
001A137	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A138	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
001A141	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A146	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
001A147	1	0%	0.17	0.17	0.17	0.17	0	0	NaN
001A148	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A152	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A153	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A154	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A160	2	0%	0.17	0.18	0.175	0.175	0.007071	0.04041	8.4e-15
001A161	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A162	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A163	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
001A174	1	0%	0.14	0.14	0.14	0.14	0	0	NaN
001A178	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
001A183	1	0%	0.06	0.06	0.06	0.06	0	0	NaN
001A44	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
001A58	1	0%	0.15	0.15	0.15	0.15	0	0	NaN
001A59	2	0%	0.19	0.2	0.195	0.195	0.007071	0.03626	0
002B	9	0%	0.21	0.36	0.31	0.33	0.04796	0.1547	-1.031
002B05	1	0%	0.63	0.63	0.63	0.63	0	0	NaN
002B106	1	0%	0.16	0.16	0.16	0.16	0	0	NaN
002B107	1	0%	0.21	0.21	0.21	0.21	0	0	NaN
002B113	1	0%	0.34	0.34	0.34	0.34	0	0	NaN
002B114	1	0%	0.3	0.3	0.3	0.3	0	0	NaN
002B18	8	0%	0.28	0.36	0.305	0.295	0.02726	0.08936	1.018
002B18-19	2	0%	0.28	0.31	0.295	0.295	0.02121	0.07191	-5.6e-15
002B18-20	3	0%	0.29	0.33	0.3033	0.29	0.02309	0.07613	0.7071
002B19-21	1	0%	0.28	0.28	0.28	0.28	0	0	NaN
002B20-21	2	0%	0.3	0.32	0.31	0.31	0.01414	0.04562	0
002B21	1	0%	0.31	0.31	0.31	0.31	0	0	NaN
002B21-23	2	0%	0.28	0.3	0.29	0.29	0.01414	0.04877	-8.4e-15
002B22-24	4	0%	0.026	0.31	0.2315	0.295	0.1372	0.5928	-1.142
002B24-25	1	0%	0.19	0.19	0.19	0.19	0	0	NaN
002B25-27	4	0%	0.28	0.31	0.295	0.295	0.01291	0.04376	6.7e-15
002B26	2	0%	0.29	0.32	0.305	0.305	0.02121	0.06955	0
002B26-27	1	0%	0.18	0.18	0.18	0.18	0	0	NaN
002B36	1	0%	0.23	0.23	0.23	0.23	0	0	NaN
002B60	1	0%	0.31	0.31	0.31	0.31	0	0	NaN

# Summary Report

Constituent: Vanadium Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	0.2	0.2	0.2	0.2	0	0	NaN
002B93	4	0%	0.28	0.32	0.3025	0.305	0.01708	0.05646	-0.4347
002B94	5	0%	0.28	0.31	0.298	0.3	0.01304	0.04375	-0.3632
002B95	1	0%	0.29	0.29	0.29	0.29	0	0	NaN

# Summary Report

Constituent: Zinc Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 19%  
 Wells = 63  
 Minimum Value = 0.0385  
 Maximum Value = 33  
 Mean Value = 2.286  
 Median Value = 2  
 Standard Deviation = 3.499  
 Coefficient of Variation = 1.531  
 Skewness = 6.233

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	0.38	0.38	0.38	0.38	0	0	NaN
001A03	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
001A08	2	50%	0.077	0.16	0.1185	0.1185	0.05869	0.4953	0
001A101	1	0%	0.094	0.094	0.094	0.094	0	0	NaN
001A103	1	0%	0.95	0.95	0.95	0.95	0	0	NaN
001A106	1	0%	0.79	0.79	0.79	0.79	0	0	NaN
001A107	1	0%	0.12	0.12	0.12	0.12	0	0	NaN
001A109	1	0%	0.13	0.13	0.13	0.13	0	0	NaN
001A109-111	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
001A110	1	0%	0.078	0.078	0.078	0.078	0	0	NaN
001A111	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
001A113	1	0%	1.7	1.7	1.7	1.7	0	0	NaN
001A114	2	0%	0.096	0.16	0.128	0.128	0.04525	0.3536	0
001A116	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
001A117-119	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
001A122-124	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
001A13	9	11%	0.0385	0.57	0.2543	0.23	0.1619	0.6367	0.644
001A135	1	100%	0.075	0.075	0.075	0.075	0	0	NaN
001A137	1	0%	0.081	0.081	0.081	0.081	0	0	NaN
001A138	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
001A141	1	0%	0.24	0.24	0.24	0.24	0	0	NaN
001A146	1	0%	0.08	0.08	0.08	0.08	0	0	NaN
001A147	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
001A148	1	0%	0.079	0.079	0.079	0.079	0	0	NaN
001A152	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
001A153	1	0%	0.077	0.077	0.077	0.077	0	0	NaN
001A154	1	0%	0.081	0.081	0.081	0.081	0	0	NaN
001A160	2	50%	0.077	0.11	0.0935	0.0935	0.02333	0.2496	1.2e-15
001A161	1	100%	0.075	0.075	0.075	0.075	0	0	NaN
001A162	1	0%	0.1	0.1	0.1	0.1	0	0	NaN
001A163	1	100%	0.075	0.075	0.075	0.075	0	0	NaN
001A174	1	100%	0.075	0.075	0.075	0.075	0	0	NaN
001A178	1	0%	0.11	0.11	0.11	0.11	0	0	NaN
001A183	1	0%	0.57	0.57	0.57	0.57	0	0	NaN
001A44	1	100%	0.075	0.075	0.075	0.075	0	0	NaN
001A58	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
001A59	2	0%	0.14	0.18	0.16	0.16	0.02828	0.1768	0
002B	9	0%	2.2	4.7	3.611	3.7	0.6918	0.1916	-0.6033
002B05	1	0%	33	33	33	33	0	0	NaN
002B106	1	0%	2	2	2	2	0	0	NaN
002B107	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
002B113	1	0%	4.6	4.6	4.6	4.6	0	0	NaN
002B114	1	0%	4.2	4.2	4.2	4.2	0	0	NaN
002B18	8	0%	3.5	5.9	4.013	3.75	0.7754	0.1932	2.122
002B18-19	2	0%	3.6	4	3.8	3.8	0.2828	0.07443	3.4e-15
002B18-20	3	0%	3.9	4.1	4.033	4.1	0.1155	0.02863	-0.7071
002B19-21	1	0%	3.6	3.6	3.6	3.6	0	0	NaN
002B20-21	2	0%	3.8	4.1	3.95	3.95	0.2121	0.0537	0
002B21	1	0%	3.8	3.8	3.8	3.8	0	0	NaN
002B21-23	2	0%	3.9	4	3.95	3.95	0.07071	0.0179	-1.3e-14
002B22-24	4	25%	0.077	3.8	2.844	3.75	1.845	0.6488	-1.152
002B24-25	1	0%	4.1	4.1	4.1	4.1	0	0	NaN
002B25-27	4	0%	3.6	3.9	3.725	3.7	0.15	0.04027	0.2138
002B26	2	0%	3.5	3.8	3.65	3.65	0.2121	0.05812	0
002B26-27	1	0%	4.2	4.2	4.2	4.2	0	0	NaN
002B36	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
002B60	1	0%	3.8	3.8	3.8	3.8	0	0	NaN

# Summary Report

Constituent: Zinc Analysis Run 3/21/2024 5:40 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	100%	0.077	0.077	0.077	0.077	0	0	NaN
002B93	4	0%	3.6	4	3.8	3.8	0.2309	0.06077	3.4e-15
002B94	5	0%	3.6	4.1	3.8	3.7	0.2	0.05263	0.6289
002B95	1	0%	3.5	3.5	3.5	3.5	0	0	NaN

# Summary Report

Constituent: pH Analysis Run 3/21/2024 12:50 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 0%  
 Wells = 63  
 Minimum Value = 5.1  
 Maximum Value = 7.38  
 Mean Value = 6.035  
 Median Value = 5.46  
 Standard Deviation = 0.714  
 Coefficient of Variation = 0.1183  
 Skewness = 0.08785

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	6.71	6.71	6.71	6.71	0	0	NaN
001A03	1	0%	6.66	6.66	6.66	6.66	0	0	NaN
001A08	2	0%	6.79	6.93	6.86	6.86	0.09899	0.01443	1.9e-14
001A101	1	0%	6.61	6.61	6.61	6.61	0	0	NaN
001A103	1	0%	6.53	6.53	6.53	6.53	0	0	NaN
001A106	1	0%	6.36	6.36	6.36	6.36	0	0	NaN
001A107	1	0%	6.63	6.63	6.63	6.63	0	0	NaN
001A109	1	0%	6.66	6.66	6.66	6.66	0	0	NaN
001A109-111	1	0%	6.79	6.79	6.79	6.79	0	0	NaN
001A110	1	0%	6.67	6.67	6.67	6.67	0	0	NaN
001A111	1	0%	6.66	6.66	6.66	6.66	0	0	NaN
001A113	1	0%	6.28	6.28	6.28	6.28	0	0	NaN
001A114	2	0%	6.62	6.63	6.625	6.625	0.007071	0.001067	0
001A116	1	0%	6.68	6.68	6.68	6.68	0	0	NaN
001A117-119	1	0%	6.64	6.64	6.64	6.64	0	0	NaN
001A122-124	1	0%	6.76	6.76	6.76	6.76	0	0	NaN
001A13	9	0%	6.69	7.05	6.857	6.85	0.1128	0.01645	0.1232
001A135	1	0%	6.79	6.79	6.79	6.79	0	0	NaN
001A137	1	0%	6.73	6.73	6.73	6.73	0	0	NaN
001A138	1	0%	6.86	6.86	6.86	6.86	0	0	NaN
001A141	1	0%	6.73	6.73	6.73	6.73	0	0	NaN
001A146	1	0%	6.89	6.89	6.89	6.89	0	0	NaN
001A147	1	0%	6.84	6.84	6.84	6.84	0	0	NaN
001A148	1	0%	6.83	6.83	6.83	6.83	0	0	NaN
001A152	1	0%	6.81	6.81	6.81	6.81	0	0	NaN
001A153	1	0%	6.82	6.82	6.82	6.82	0	0	NaN
001A154	1	0%	6.8	6.8	6.8	6.8	0	0	NaN
001A160	2	0%	6.69	6.81	6.75	6.75	0.08485	0.01257	0
001A161	1	0%	6.69	6.69	6.69	6.69	0	0	NaN
001A162	1	0%	6.89	6.89	6.89	6.89	0	0	NaN
001A163	1	0%	6.75	6.75	6.75	6.75	0	0	NaN
001A174	1	0%	6.79	6.79	6.79	6.79	0	0	NaN
001A178	1	0%	6.72	6.72	6.72	6.72	0	0	NaN
001A183	1	0%	6.67	6.67	6.67	6.67	0	0	NaN
001A44	1	0%	6.55	6.55	6.55	6.55	0	0	NaN
001A58	1	0%	6.71	6.71	6.71	6.71	0	0	NaN
001A59	2	0%	6.49	6.63	6.56	6.56	0.09899	0.01509	-1.9e-14
002B	9	0%	5.3	5.42	5.347	5.35	0.04213	0.00788	0.3534
002B05	1	0%	5.46	5.46	5.46	5.46	0	0	NaN
002B106	1	0%	5.1	5.1	5.1	5.1	0	0	NaN
002B107	1	0%	6.68	6.68	6.68	6.68	0	0	NaN
002B113	1	0%	5.33	5.33	5.33	5.33	0	0	NaN
002B114	1	0%	5.35	5.35	5.35	5.35	0	0	NaN
002B18	8	0%	5.26	5.42	5.353	5.365	0.05548	0.01037	-0.513
002B18-19	2	0%	5.31	5.34	5.325	5.325	0.02121	0.003984	8.9e-14
002B18-20	3	0%	5.27	5.37	5.333	5.36	0.05508	0.01033	-0.681
002B19-21	1	0%	5.25	5.25	5.25	5.25	0	0	NaN
002B20-21	2	0%	5.31	5.33	5.32	5.32	0.01414	0.002658	-1.3e-13
002B21	1	0%	5.28	5.28	5.28	5.28	0	0	NaN
002B21-23	2	0%	5.33	5.34	5.335	5.335	0.007071	0.001325	0
002B22-24	4	0%	5.26	5.44	5.34	5.33	0.08485	0.01589	0.2117
002B24-25	1	0%	5.35	5.35	5.35	5.35	0	0	NaN
002B25-27	4	0%	5.27	5.37	5.32	5.32	0.04163	0.007826	3.7e-14
002B26	2	0%	5.38	5.42	5.4	5.4	0.02828	0.005238	-6.7e-14
002B26-27	1	0%	5.37	5.37	5.37	5.37	0	0	NaN
002B36	1	0%	6.87	6.87	6.87	6.87	0	0	NaN
002B60	1	0%	5.36	5.36	5.36	5.36	0	0	NaN

# Summary Report

Constituent: pH Analysis Run 3/21/2024 12:50 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

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<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	6.69	6.69	6.69	6.69	0	0	NaN
002B93	4	0%	5.29	5.43	5.353	5.345	0.06131	0.01145	0.3214
002B94	5	0%	5.29	7.38	5.758	5.38	0.9081	0.1577	1.488
002B95	1	0%	5.43	5.43	5.43	5.43	0	0	NaN

# Summary Report

Constituent: Temperature Analysis Run 3/21/2024 12:50 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

For observations made between 2/10/2024 and 3/14/2024, a summary of the selected data set:

Observations = 109  
 NDs = 0%  
 Wells = 63  
 Minimum Value = 15  
 Maximum Value = 22.2  
 Mean Value = 19.29  
 Median Value = 19.6  
 Standard Deviation = 1.466  
 Coefficient of Variation = 0.07601  
 Skewness = -0.4787

Well	#Obs.	NDs	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
010A82	1	0%	19.6	19.6	19.6	19.6	0	0	NaN
001A03	1	0%	21.9	21.9	21.9	21.9	0	0	NaN
001A08	2	0%	17.4	19.3	18.35	18.35	1.344	0.07322	-5.6e-15
001A101	1	0%	19.9	19.9	19.9	19.9	0	0	NaN
001A103	1	0%	19.7	19.7	19.7	19.7	0	0	NaN
001A106	1	0%	20.4	20.4	20.4	20.4	0	0	NaN
001A107	1	0%	18.3	18.3	18.3	18.3	0	0	NaN
001A109	1	0%	19.5	19.5	19.5	19.5	0	0	NaN
001A109-111	1	0%	16.5	16.5	16.5	16.5	0	0	NaN
001A110	1	0%	20.3	20.3	20.3	20.3	0	0	NaN
001A111	1	0%	19.7	19.7	19.7	19.7	0	0	NaN
001A113	1	0%	18.1	18.1	18.1	18.1	0	0	NaN
001A114	2	0%	17.4	19.8	18.6	18.6	1.697	0.09124	-4.4e-15
001A116	1	0%	18.5	18.5	18.5	18.5	0	0	NaN
001A117-119	1	0%	19.8	19.8	19.8	19.8	0	0	NaN
001A122-124	1	0%	16.7	16.7	16.7	16.7	0	0	NaN
001A13	9	0%	16.8	20.4	19.04	19.3	1.174	0.06163	-0.6874
001A135	1	0%	21.3	21.3	21.3	21.3	0	0	NaN
001A137	1	0%	18.9	18.9	18.9	18.9	0	0	NaN
001A138	1	0%	19	19	19	19	0	0	NaN
001A141	1	0%	18.9	18.9	18.9	18.9	0	0	NaN
001A146	1	0%	19	19	19	19	0	0	NaN
001A147	1	0%	20	20	20	20	0	0	NaN
001A148	1	0%	19.8	19.8	19.8	19.8	0	0	NaN
001A152	1	0%	20	20	20	20	0	0	NaN
001A153	1	0%	19.8	19.8	19.8	19.8	0	0	NaN
001A154	1	0%	19.7	19.7	19.7	19.7	0	0	NaN
001A160	2	0%	18.6	20	19.3	19.3	0.9899	0.05129	0
001A161	1	0%	21.5	21.5	21.5	21.5	0	0	NaN
001A162	1	0%	15.3	15.3	15.3	15.3	0	0	NaN
001A163	1	0%	20.9	20.9	20.9	20.9	0	0	NaN
001A174	1	0%	21.7	21.7	21.7	21.7	0	0	NaN
001A178	1	0%	18.9	18.9	18.9	18.9	0	0	NaN
001A183	1	0%	16.7	16.7	16.7	16.7	0	0	NaN
001A44	1	0%	21.1	21.1	21.1	21.1	0	0	NaN
001A58	1	0%	18.3	18.3	18.3	18.3	0	0	NaN
001A59	2	0%	17.4	17.7	17.55	17.55	0.2121	0.01209	3.6e-14
002B	9	0%	15	21.7	19.51	20	1.911	0.09797	-1.482
002B05	1	0%	20.2	20.2	20.2	20.2	0	0	NaN
002B106	1	0%	18.5	18.5	18.5	18.5	0	0	NaN
002B107	1	0%	19.7	19.7	19.7	19.7	0	0	NaN
002B113	1	0%	18.2	18.2	18.2	18.2	0	0	NaN
002B114	1	0%	18.8	18.8	18.8	18.8	0	0	NaN
002B18	8	0%	17.5	19.8	19.05	19.1	0.7309	0.03837	-1.164
002B18-19	2	0%	17.7	20.2	18.95	18.95	1.768	0.09329	0
002B18-20	3	0%	15.1	19.9	17.73	18.2	2.434	0.1372	-0.3393
002B19-21	1	0%	17.8	17.8	17.8	17.8	0	0	NaN
002B20-21	2	0%	17.6	20.3	18.95	18.95	1.909	0.1007	-4.0e-15
002B21	1	0%	19.6	19.6	19.6	19.6	0	0	NaN
002B21-23	2	0%	20.7	22.2	21.45	21.45	1.061	0.04945	0
002B22-24	4	0%	18	22	19.58	19.15	1.744	0.08911	0.7023
002B24-25	1	0%	17.1	17.1	17.1	17.1	0	0	NaN
002B25-27	4	0%	18.2	21.6	19.78	19.65	1.597	0.08074	0.141
002B26	2	0%	18.9	19.6	19.25	19.25	0.495	0.02571	0
002B26-27	1	0%	16.8	16.8	16.8	16.8	0	0	NaN
002B36	1	0%	20	20	20	20	0	0	NaN
002B60	1	0%	18	18	18	18	0	0	NaN

# Summary Report

Constituent: Temperature Analysis Run 3/21/2024 12:50 PM  
 Chiquita Canyon Landfill Client: Waste Connections Data: TF7 Leachate Data

<u>Well</u>	<u>#Obs.</u>	<u>NDs</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
002B84	1	0%	20.4	20.4	20.4	20.4	0	0	NaN
002B93	4	0%	19.2	21.8	20.13	19.75	1.147	0.057	0.9682
002B94	5	0%	19.2	22.1	20.52	20.1	1.308	0.06376	0.2685
002B95	1	0%	19.1	19.1	19.1	19.1	0	0	NaN

# Table 1

**Table 1**  
**COMPARISON OF LEACHATE AND STORMWATER RUNOFF**  
**Chiquita Canyon Landfill, Los Angeles County, California**

CONSTITUENT	REACTION AREA LEACHATE (ATTACHMENT 3) (February - March 2024 Data)				UNAFFECTED LEACHATE (ATTACHMENT 2) (February - March 2024 Data)				SOUTH BASIN STORM WATER RUNOFF (ATTACHMENT 1) (December 2019 - March 2024 Data)			
	No. Samples	% NDs	Mean Concentration (mg/L)	Standard Deviation (mg/L)	No. Samples	% NDs	Mean Concentration (mg/L)	Standard Deviation (mg/L)	No. Samples	% NDs	Mean Concentration (mg/L) <sup>5</sup>	Standard Deviation (mg/L) <sup>5</sup>
pH	109	NA	6.0	0.71	34	NA	7.4	0.16	19	NA	7.9	0.04
Pyridine	109	20	0.98	0.77	34	100	NA	NA	5	100	NA	NA
Antimony	109	31	0.15	0.14	34	29	0.11	0.06	2	0	0.01	0
Arsenic	109	0	0.34	0.16	34	0	0.37	0.066	20	0	0.014	0.007
Beryllium	109	58	0.0035	0.0027	34	100	NA	NA	2	100	NA	NA
Cadmium	109	99	0.015	0.0063	34	100	NA	NA	16	37	0.0004	0.0003
Chromium	109	0	0.50	0.11	34	0	0.25	0.018	8	0	0.01	0.009
Copper	109	36	0.072	0.047	34	44	0.051	0.031	2	0	0.022	0.013
Lead	109	55	0.16	0.95	34	97	0.039	0.0086	16	6	0.004	0.006
Mercury	109	94	0.024	0.032	34	97	0.030	0.026	15	60	0.000029	0.000022
Nickel	109	8	0.16	0.059	34	0	0.38	0.055	2	0	0.012	0.006
Selenium	109	72	0.12	0.040	34	94	0.090	0.037	16	25	0.0036	0.0035
Silver	109	97	0.034	0.16	34	91	0.074	0.31	12	75	0.0016	0.0009
Thallium	109	99	0.092	0.079	34	100	NA	NA	2	100	NA	NA
Zinc	109	19	2.2	3.5	34	32	0.12	0.092	20	0	0.060	0.0744
Ammonia (as N)									20	5	1.07	1.42
a-Terpineol									5	100	NA	NA
Benzoic Acid									6	66	0.024	0.031
BOD									8	0	36.7	33.5
BTEX									12	83	0.0022	0.001
Chloride									18	0	113	76.4
COD									16	0	184	118
EColi									12	17	76778	202984
Iron									18	0	3.03	3.69
Magnesium									16	0	21.6	7.88
NO2+NO3 (as N)									16	6	3.46	4.97
O&G									18	27	2.05	3.56
p-Cresol									6	50	0.0079	0.005897

**Table 1**  
**COMPARISON OF LEACHATE AND STORMWATER RUNOFF**  
**Chiquita Canyon Landfill, Los Angeles County, California**

CONSTITUENT	REACTION AREA LEACHATE (ATTACHMENT 3) (February - March 2024 Data)				UNAFFECTED LEACHATE (ATTACHMENT 2) (February - March 2024 Data)				SOUTH BASIN STORM WATER RUNOFF (ATTACHMENT 1) (December 2019 - March 2024 Data)			
	No. Samples	% NDs	Mean Concentration (mg/L)	Standard Deviation (mg/L)	No. Samples	% NDs	Mean Concentration (mg/L)	Standard Deviation (mg/L)	No. Samples	% NDs	Mean Concentration (mg/L) <sup>5</sup>	Standard Deviation (mg/L) <sup>5</sup>
Phenol									6	50	0.0080	0.0086
Phosphorous (as P)									16	0	0.402	0.590
Total Coliform									16	0	318380	684109
TSS									20	5	77.33	93.69
Temperature	109	NA	19	1.5	4	NA	19	1.7				
1,2-Dichloroethane	109	99	0.010	0.0054	34	100	NA	NA				
1,4-Dichlorobenzene	109	88	0.017	0.019	34	100	NA	NA				
2-Butanone (MEK)	109	0	45	23	34	0	6.2	5.5				
2-Methylphenol	109	33	0.97	0.82	34	100	NA	NA				
3,4-Methylphenol	109	0	16	3.4	34	2	2.7	1.1				
Benzene	109	0	0.31	0.20	34	100	NA	NA				
Chlorobenzene	109	99	0.016	0.010	34	100	NA	NA				
Pentachlorophenol	109	99	1.0	0.65	34	100	NA	NA				
Tetrachloroethene	109	97	0.020	0.0074	34	100	NA	NA				
Trichloroethene	109	99	0.015	0.0063	34	100	NA	NA				
Barium	109	0	4.1	2.0	34	0	3.7	0.30				
Cobalt	109	3	0.033	0.032	34	0	0.0044	0.0083				
Molybdenum	109	39	0.025	0.017	34	32	0.051	0.014				
Vanadium	109	0	0.24	0.083	34	0	0.48	0.036				

**NOTES:**

1. See Attachments 1, 2, and 3 for data summaries.
2. Shaded cells indicate no available data.
3. Mean concentrations and standard deviations for EColi and Total Coliforms do not include concentrations where the results are reported as "<" (greater than).
4. For cases where % NDs are greater than 0, non-detected (ND) results had an assumed concentration equal to 0.5 x MDL (Method Detection Limit).
5. EColi and Total Coliform units are MPN/100 mL.

# **Attachment B**



**CHIQUITA CANYON**  
*A Waste Connections Company*

May 16, 2024

***Via E-Mail***

Sean Lee  
Los Angeles Regional Water Quality Control Board  
Stormwater Compliance & Enforcement Unit  
320 W. 4th Street, Suite 200  
Los Angeles, CA 90013  
Sean.Lee@waterboards.ca.gov

**Re: Notice of Violation: Discharge Prohibitions and Failure to Develop Complete Storm Water Pollution Prevention Plan and Implement Effect Best Management Practices – Chiquita Canyon Landfill, 2901 Henry Mayo Drive, Castaic, California (WDID NO. 4 19I022488)**

Dear Mr. Lee:

Chiquita Canyon, LLC (“Chiquita”) hereby submits the following response to the Notice of Violation (“NOV”) issued by the California Regional Water Quality Control Board, Los Angeles Region (“Regional Board”) on April 9, 2024.<sup>1</sup> This response also serves as a supplement to Chiquita’s April 29 response to the March 28 NOV.

In addition to requesting a written response, the Regional Board’s NOV required Chiquita to take several actions. Chiquita has taken immediate steps to address the following seven items listed in the April 9 NOV:

- Item 1: Despite the effectiveness of its use of a floating inlet/skimmer and pump to manage stormwater within the South Detention Basin (“Basin”) and its consistency with the goals of the Industrial General Permit (“IGP”), Chiquita discontinued this practice in March 2024 at the Regional Board’s request and amended its Stormwater Pollution Prevention Plan (“SWPPP”) accordingly in April 2024.
- Item 2: Enclosed as Attachment A is information regarding Chiquita’s prior use of inlets/skimmers with pumping equipment at the Basin.
- Item 3: Enclosed as Attachment B is the available analytical data for Chiquita’s prior use of inlets/skimmers with pumping equipment at the Basin per the details included in Attachment A.

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<sup>1</sup> On May 14, 2024, the Regional Board granted an extension of Chiquita’s response deadline to May 16, 2024.  
29201 Henry Mayo Drive | Castaic, California 91384  
www.chiquitacanyon.com

- Items 4 and 5: As discussed below, Chiquita has never discharged water from a vacuum truck into a waterway that discharges to the Santa Clara River.
- Item 6: The facility-specific design information for the Basin as requested by the NOV is available in Chiquita's SWPPP as Appendix I.
- Item 7: Chiquita's SWPPP has also been updated in SMARTS per the request of the Regional Board.

## **INTRODUCTION**

There is neither a factual nor legal basis for the Regional Board's allegations of unpermitted discharges from the Chiquita Canyon Landfill's ("Landfill") Basin in its March 28 and April 9 NOVs. We appreciate this opportunity to provide additional information, which we urge the Regional Board to consider.

The Regional Board incorrectly alleges in its March 28 NOV that Chiquita repeatedly discharged leachate commingled with stormwater runoff to the Santa Clara River at various times in December 2023 through February 2024 in violation of the State Water Resources Control Board's IGP.<sup>2</sup> The Regional Board presents no credible evidence or data to support these allegations. First, the Regional Board does not make clear which of the IGP's various discharge prohibitions were violated and thus fails to meet its legal burden to demonstrate violations of the IGP.<sup>3</sup> The stormwater discharges through Chiquita's permitted South discharge outfall were below benchmark levels for all measured constituents that could indicate leachate commingling. Further, the prohibition on unauthorized non-stormwater discharges ("NSWDs") cannot apply because stormwater commingled with leachate is considered "contaminated storm water" (as opposed to "landfill wastewater," or non-stormwater). The IGP allows for the discharge of contaminated storm water.<sup>4</sup> Without any clearly alleged violation, the Regional Board is left to demonstrate how the alleged discharges caused the "contamination" or "pollution" of the environment or a "nuisance" as defined by the Water Code, which it cannot do.<sup>5</sup>

Additionally, the data supports that there was no commingling of stormwater and leachate. None of the constituents detected in the Basin stormwater discharge samples and identified in the NOV indicate commingling with leachate. Sampling data provided with Chiquita's April 29 response to the March 28 NOV show the elevated presence of total suspended solids ("TSS"), biological

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<sup>2</sup> The IGP prohibits "discharges of storm water to waters of the United States" unless specifically authorized (IGP § III.A); "discharges of liquids or materials other than storm water, either directly or indirectly to waters of the United States," unless an expressly authorized non-storm water discharge ("NSWD") (IGP § III.B); and "[i]ndustrial storm water discharges and authorized NSWDs that contain pollutants that cause or threaten to cause pollution, contamination, or nuisance as defined in section 13050 of the Water Code" (IGP § III.C).

<sup>3</sup> The Regional Board has the burden of demonstrating any violations of the IGP and/or related state law by the preponderance of available evidence, data, and information, including the existence of each fact that is essential to the cause of action. *See In re Colin-Strawberry Water Co., Inc.*, 2005 WL 1798306 (Cal. P.U.C. July 21, 2005); *see also* Evid. Code, § 500 ("Except as otherwise provided by law, a party has the burden of proof as to each fact the existence or nonexistence of which is essential to the claim for relief or defense that he is asserting.").

<sup>4</sup> *See* 40 C.F.R. §§ 445.2(b) (defining "contaminated storm water"), 445.2(f) (defining "landfill wastewater").

<sup>5</sup> *See* IGP §§ III.A, III.C; Cal. Water Code §§ 13050(k)-(m).

oxygen demand (“BOD”), and iron—all typical of municipal landfill stormwater flows. Other detected constituents, such as phenol, were below benchmarks, and thus cannot support a violation of the IGP. Further, there were no detections of constituents that are indicative of the Landfill’s reaction area leachate, such as pyridine or  $\alpha$ -Terpineol, which indicates that the Landfill’s leachate was not a measurable component of the discharges.

Furthermore, while benzene was detected in minimal amounts in just two samples, these detections are not conclusive of leachate commingling. While benzene is a potential reaction area leachate indicator, it occurs generally from industrial processes, such as the sharply increased use of heavy equipment across the Landfill as Chiquita works to remediate the ongoing Elevated Temperature Landfill (“ETLF” or “reaction”) event. No data supports that these two minor benzene detections in stormwater discharge samples are due to leachate entering the Basin. Further, the presence of benzene in the two samples of stormwater discharges were both below benchmark levels and thus do not indicate a violation of the IGP.

The facts also do not support the discharge violation allegations in the April 9 NOV. No discharge from the Basin impermissibly bypassed the Basin’s two standpipes (“primary outlets”) or discharged to an unpermitted outfall. All discharges to the Santa Clara River were through the permitted South discharge outfall. Consistent with industry standard Best Management Practices (“BMPs”), Chiquita used a floating inlet/skimmer and pump to discharge stormwater from the top of the water column in the Basin to a concrete spillway that flows directly to the permitted South discharge outfall. The concrete spillway was intentionally designed as a secondary outlet that could be used, for example, in case of Basin overflows during wet weather. This BMP reduces potential exceedances of the Numeric Action Levels (“NALs”) by discharging water from the top of the column where there are less suspended solids and other constituents than at the bottom—especially following the use of flocculants and allowed time for settling. This practice is consistent with the Basin’s design and does not constitute an unpermitted discharge of stormwater under the IGP.

The Regional Board’s separate allegations relating to a supposed vacuum truck discharge are inaccurate and highly inflammatory. The Regional Board incorporated into the NOV an unsubstantiated citizen complaint without any effort to determine the accuracy of the information. The Regional Board presumes without any basis that a vacuum truck in a photo is discharging its contents to the spillway. Had the Regional Board made an effort to ask Chiquita about this photo, it would have discovered that the truck was not discharging any material to the spillway. The photo shows a combination of two different activities. The truck in the photograph is a fueling truck that was refueling the Basin pump. Refueling often took place multiple times per day when the pump was in use, including at the end of the operating day, since the pump would at times run continuously into the evening. The flow of liquids in the photograph is the pump directing Basin stormwater to the spillway and permitted discharge outfall. The evidence presented in the April 9 NOV does not show an unpermitted discharge, but instead stormwater being discharged through a designed secondary outlet of the Basin to the permitted discharge outfall.

Just as the discharge allegations in the two NOVs lack merit, so too do the alleged SWPPP and BMP violations. The Regional Board's March 28 and April 9 NOVs are baseless, and Chiquita respectfully requests that they be withdrawn.

As detailed in both Chiquita's December 22, 2023, response to the Regional Board's November 22, 2023, NOV, as well as the final report submitted as required under that NOV by Chiquita on February 20, 2024, Chiquita has been actively implementing BMPs to effectively mitigate and reduce the impacts of leachate at the Landfill pursuant to the IGP, and will continue to do so.

### **I. Discharge Prohibition Violations**

- 1) *The Permittee discharged water from the south detention basin using pumping equipment and bypassing the primary outlets of the basin that control the release of water discharge. The pumping and discharge from the south detention basin occurred multiple times during February and March 2024. Pumping equipment was also observed on top of the spillway during the Los Angeles Water Board's inspection on January 29, 2024, suggesting that pumping was also conducted during January 2024. This is a violation of the Industrial General Permit Section III.A-C and Section XXI.E.*
- 2) *The Permittee discharged water from the vacuum truck with unknown contents into the local waterway that discharges into the Santa Clara River. The frequency of this practice and the sources of the vacuum truck water are unknown. This is a violation of the Industrial General Permit Section III.A-C.*

The Regional Board's allegation that Chiquita violated the IGP by using pumping equipment to bypass the primary outlets of the Basin is meritless. The use of floating inlets/skimbers, including with pumping equipment, to manage stormwater at the Landfill is not prohibited by the IGP—it is in fact an effective BMP for stormwater management per the California Stormwater Quality Association (“CASQA”) guidelines.<sup>6</sup> In addition, the use of this effective BMP, especially when combined with the use of flocculants to accelerate the settling of suspended solids, reduces overall TSS and other constituents in the discharge from the Basin and therefore in stormwater discharges to the Santa Clara River.

Further, Chiquita's use of pumping equipment to direct stormwater from the Basin to the concrete spillway is not a violation of the IGP as the flow of stormwater to the permitted discharge outfall to the Santa Clara River remains unchanged and is consistent with the design of the Basin.<sup>7</sup> Whether stormwater is flowing through the primary outlets or the secondary spillway, it is directed to the same discharge outfall to the river. All sampling protocols are followed pursuant to the SWPPP and IGP regardless of the flow path.

Lastly, the truck shown adjacent to the pumping equipment in Photographs 4 and 5 of the NOV was not a vacuum truck, but instead an on-site mobile fuel truck. The liquid shown in those

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<sup>6</sup> CASQA, *California Stormwater BMP Handbook* (Feb. 2010).

<sup>7</sup> See April 2024 SWPPP Update, Appendix I.

photos is pumped stormwater that was again directed to the spillway prior to reaching the permitted discharge outfall consistent with the design of the Basin.

### **1. Use of Inlets/Skimers with Pumping Equipment is an Effective BMP for Basins**

Chiquita's use of a floating inlet/skimmer with pumping equipment to manage stormwater within the Basin was and is an effective BMP permissible under the IGP and recommended by industry and construction BMP guidelines.<sup>8</sup> The floating inlet/skimmer and pumping equipment are used to direct water from the top of the water column, which typically contains less suspended solids than water at the bottom of the column, to the spillway and eventual discharge point. Many pollutants bind to the solids and thus settle out with those solids. Given its benefit of directing stormwater from the top of the water column and allowing additional time for suspended solids to settle, Chiquita's use of this BMP mitigated and reduced the discharge of TSS and other constituents from the Basin consistent with the goals and requirements of the IGP, including Section XXI.E.

Industry standards, including the CASQA guidelines—specifically BMP SE-2 for sedimentation basins—state that floating inlets/skimers are an effective BMP to reduce TSS and other constituents in stormwater discharges. Pumps are also commonly used in conjunction with floating inlets/skimers in older basins or basins without discharge pipes, which are otherwise unable to accommodate a floating inlet/skimmer with a gravity discharge pipe. Chiquita's Basin is an example of an older basin where pumping is necessary. In some instances, the CASQA guidelines even recommend the use of pumps to discharge stagnant water that may attract vectors or cause odors.<sup>9</sup>

Chiquita uses flocculant to accelerate the settlement of suspended solids and other constituents within the Basin. The floating inlet/skimmer and pumping equipment allows Chiquita to fully appreciate the benefit of that flocculant and accelerated settlement by directing stormwater at the top of the water column with reduced TSS and other constituents to the spillway and eventually the permitted discharge point. As a result, Chiquita's use of a floating inlet/skimmer and pumping equipment at the Basin was an effective and allowable BMP for managing stormwater at the Landfill and not a violation of the IGP.

### **2. Use of Pumping Equipment to Direct Stormwater to the Permitted Discharge Outfall Did Not Violate the IGP**

Chiquita's Basin has primary outlets (two standpipes) that direct stormwater from the Basin to a concrete drainage area during rain events, which then leads to the South discharge outfall, a culvert that goes under Highway 126, and eventually to the Santa Clara River. The Basin is also designed with a secondary concrete spillway for overflow capacity. This is a common design

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<sup>8</sup> The IGP provides that “[t]he use of BMPs to control or abate the discharge of pollutants is authorized by 40 [C.F.R.] [S]ection 122.44(k)(3) . . . to achieve effluent limitations and water quality standards, and to carry out the purposes and intent of the Clean Water Act.” IGP § I.D.36.

<sup>9</sup> See CASQA, “Sediment Basin SE-2,” *California Stormwater BMP Handbook* (Feb. 2010).

practice and consistent with the IGP. Should the Basin overflow due to heavy rain, the water would naturally go over the spillway to the same concrete drainage area and to the same permitted discharge outfall to the Santa Clara River. All sampling pursuant to the IGP are collected from representative discharges from the Basin prior to stormwater reaching the permitted discharge outfall to the Santa Clara River.

Use of pumping equipment to direct stormwater from the top of the water column in the Basin to the concrete spillway does not change the discharge point to the Santa Clara River. The practice of pumping is consistent with the Basin's design and not a violation of the IGP.

### **3. Discharge of Pumped Stormwater Did Not Amount to Pollution, Contamination, or Nuisance**

As described above, since the Regional Board has failed to allege with specificity which provision of the IGP was violated, it apparently relies on its broad authority to issue violations for discharges that cause "pollution, contamination, or nuisance" as defined in Section 13050 of the Water Code. However, there is no evidence that the prior practice of pumping stormwater from the Basin has caused or threatened to cause "pollution, contamination, or nuisance." These are defined terms that require hazards to public health via poisoning or spread of disease (contamination<sup>10</sup>), alterations of water quality which unreasonably affect the beneficial use of waters (pollution<sup>11</sup>), or nuisances which are injurious to health, indecent to the senses, and obstruct the free use of property or enjoyment of life.<sup>12</sup> Available data does not support the presence of any of these effects.

As discussed in Chiquita's April 29 response to the Regional Board's March 28 NOV, effluent limit testing of stormwater discharges since the reaction began have all been below the maximum daily limit for each respective Effluent Limitation Guideline ("ELG"), with the exception of TSS and iron. TSS and iron are unrelated to leachate. The levels of TSS and iron are being addressed via corrective action, with responses dating back to 2017.

Further, there were no detections of constituents that are indicative of the Landfill's reaction area leachate, such as pyridine or  $\alpha$ -Terpineol, which shows that the Landfill's leachate was not a measurable component of the discharges. While benzene was detected in one December 2023 sample and one February 2024 sample, these detections are not conclusive of leachate commingling. Benzene is a potential reaction area leachate indicator, but also occurs generally from industrial processes, such as the sharply increased use of heavy equipment across the Landfill as Chiquita works to remediate the ongoing reaction event.

No data supports that these two minor benzene detections in stormwater discharge samples are due to leachate entering the Basin. The alleged proximity of a discharge in space (to a so-called "leachate leaking area") or time (to heavy wet weather events) cannot overcome this lack of

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<sup>10</sup> Water Code § 13050(k).

<sup>11</sup> Water Code § 13050(l).

<sup>12</sup> Water Code § 13050(m).

evidence. Additionally, the presence of benzene in the two samples of stormwater discharges were both below benchmark levels and do not indicate a violation of the IGP.<sup>13</sup>

As described above, the use of pumping equipment, especially when accompanied with Chiquita's use of flocculant, mitigates and reduces TSS and other constituents in stormwater discharges. The mere detection of various constituents—each under their respective ELG limit or benchmark—do not amount to a violation of Section III.C of the IGP.

#### **4. Alleged Vacuum Truck was a Mobile Fuel Truck and the “Unknown” Discharge was Pumped Stormwater Consistent with the IGP**

Photographs 4 and 5 do not depict what the Regional Board alleges them to depict. Chiquita has never discharged water from a vacuum truck into a waterway that discharges to the Santa Clara River. The Regional Board could have easily confirmed this by asking Chiquita instead of presuming the accuracy of facts alleged in an anonymous complaint. The vehicle in the photographs was not a vacuum truck as alleged, but rather an on-site mobile fuel truck used to service equipment across the Landfill. That fueling truck was actively refueling the pump described above in Section I.2 when these photographs were taken. The truck was not discharging “unknown contents” to the spillway.

Instead, and as described above, the depicted discharge was stormwater that was pumped from the Basin to the spillway, which flowed to the Basin's permitted discharge outfall. All of this is consistent with the design of the Basin and not a violation of IGP Sections III.A–C. That this pumping and pump-refueling occurred at night is of no consequence. Prior pumping practices were conducted both during the day and night depending on various facility-related circumstances. When pumps were in operation, the pump may have required refueling multiple times throughout the day, including toward the end of the operating day so that the pump could continue to operate throughout the evening as needed.

## **II. SWPPP and BMP Violations:**

- 1) *Pumping of the south detention basin and discharge of water that bypasses the basin's designed primary outlet and spillway is not in accordance with the proper operation and maintenance of the BMP. This is a violation of the Industrial General Permit Sections X.C.1.b, X.D.2.a, X.H.4.a, and Section XXI.F.*
- 2) *The revised SWPPP (March 2024) failed to include or reference applicable plans, procedures, and regulatory compliance documentation. This is a violation of the Industrial General Permit Sections X.D.2.b and c.*

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<sup>13</sup> The Regional Board applied a benchmark value of 0.01 mg/L (10 µg/L) for benzene. See Los Angeles Regional Water Quality Control Board Order No. R4-2011-0052, t.1 (Mar. 3, 2011).

- 3) *Appendix G of the revised SWPPP (March 2024) failed to provide the south detention basin's facility-specific design information thereby failing to show the applicable design standard. This is a violation of the Industrial General Permit Section X.H.6.*

Chiquita's use of the Basin—with or without pumping equipment—as a BMP was properly developed and documented within the SWPPP at the time of implementation. As described above, this BMP has been effectively implemented to reduce and/or prevent pollutants in stormwater discharges at the Landfill. Further, Sections X.D.2.b and c do not require the specific elements of BMP plans, procedures, and regulatory compliance documents within the SWPPP. Here, the March 2024 SWPPP Appendix G explicitly references that such documents are electronically available. Lastly, the Basin's facility-specific design information was also not required to be included in the March 2024 SWPPP. Section X.H.6 of the IGP only requires such information for new treatment BMPs after the effective date of the IGP. The Basin has been in place since 2004, before the July 2020 effective date of the IGP. As a result, these allegations are not a violation of the IGP.

**1. Use of Pumping Equipment as a BMP was Properly Implemented and Consistent with the SWPPP.**

Chiquita's use of the Basin as a BMP, including with pumping equipment, is consistent with Chiquita's SWPPP and was effectively implemented to reduce TSS and other constituents in stormwater discharges. The Basin's concrete spillway, acting as a secondary outlet, functioned as designed to direct stormwater to the South discharge outfall consistent with the SWPPP and IGP. Further, all sampling protocols for qualified storm events ("QSEs") were followed as required by Section XI.B of the IGP.

As discussed above, in order to enhance the Basin's effectiveness, stormwater that accumulated in the Basin was treated with flocculant and allowed time for settling. Then, water from the top of the water column was directed to the spillway via a floating inlet/skimmer and pumping equipment. This combination of BMPs allowed for settlement of suspended solids to the bottom of the Basin, and discharge from the top of the water column, thereby reducing TSS and other constituents in stormwater discharge and reducing potential exceedances of NALs. The practice is consistent with the goals of the IGP.

Further, Chiquita followed all sampling protocols for QSEs consistent with Section 7.3 of the SWPPP as required by Section XI.B of the IGP. Chiquita is required to collect and analyze stormwater samples from two QSEs in each half of a reporting year based on several timing and weather-related conditions outlined in Section XI.B of the IGP, which Chiquita has followed. All sampling pursuant to the IGP are collected from representative discharges from the Basin prior to stormwater reaching the permitted discharge outfall to the Santa Clara River. Additionally, pursuant to the Regional Board's Investigative Order No. R4-2024-0010 ("Order"), issued on March 20, 2024, all stormwater flows into the Basin and discharges out of the Basin since then are now sampled.

Despite the effectiveness of this BMP and its consistency with the goals of the IGP, at the Regional Board's request, Chiquita discontinued this BMP in March 2024 and amended its SWPPP accordingly in April 2024. Regardless, this BMP was properly developed, implemented, and maintained pursuant to IGP Sections X.D.2.a and XXI.F. The design, operation, and maintenance of the Basin continue to be consistent with all applicable local, state and federal requirements.

## **2. Alleged Missing Documentation and Design Information are Not Required in the SWPPP.**

Despite the allegations, Section X.D.2.b of the IGP does not require that a SWPPP include the specific elements of the applicable plans, procedures, and regulatory compliance documentation. Instead, Section X.D.2.b specifically states “the discharger *may* include . . . specific elements of existing plans, procedures, or regulatory compliance documents” within their SWPPP.<sup>14</sup> Because such plans, procedures, and regulatory compliance documents are not required by the IGP, failure to include such references does not violate the IGP.

Section X.D.2.c of the IGP requires that the discharger “properly *reference* the original sources for any elements of existing plans, procedures, or regulatory compliance documents included as part of their SWPPP and shall *maintain a copy of the documents at the facility* as part of the SWPPP.”<sup>15</sup> Appendix G of the March 2024 SWPPP properly referenced the CASQA BMP Handbook Fact Sheets which were stated to be “electronically available” at the facility. Thus, there is no violation of the IGP.

Section X.H.6 of the IGP applies only to “[a]ll *new* treatment control BMPs employed . . . *from the effective date of this order.*”<sup>16</sup> The Basin has been in operation since 2004, ten years prior to the effective date of the IGP's first adoption, let alone its most recent amendments. It is not a new treatment control BMP. Therefore, the IGP does not require that the referenced facility-specific design information be included in the SWPPP, nor is its absence a violation of the IGP. At the request of the Regional Board, Chiquita has since added this information as Appendix I in the April 2024 SWPPP.

## **CONCLUSION**

There is neither a factual nor legal basis for the Regional Board's allegations of unpermitted discharges from the Basin in its March 28 and April 9 NOVs. The Regional Board does not allege with any specificity how the stormwater discharges violate the IGP. The data plainly show that constituent levels in the discharges are below benchmark, with the exception of two constituents that are unrelated to leachate and are being separately addressed via corrective action responses dating back to 2017.

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<sup>14</sup> IGP § X.D.2.b (emphasis added).

<sup>15</sup> IGP § X.D.2.c (emphasis added).

<sup>16</sup> IGP § X.H.6 (emphases added).

Further, the use of pumping equipment to direct water from the top of the water column in the Basin to the concrete spillway does not violate the IGP. The redirected water still flowed through the permitted South discharge outfall to the Santa Clara River with Chiquita following all sampling protocols required by the IGP. Consistent with industry standard BMPs, Chiquita used a floating inlet/skimmer and pump to discharge stormwater from the top of the water column in the Basin, thereby reducing pollutants in stormwater discharge and reducing potential exceedances of NALs and related benchmarks. This practice is consistent with the goals of the SWPPP and IGP, including Section XXI.E of the IGP.

Chiquita continues to actively implement BMPs to effectively mitigate and reduce the impacts of leachate and stormwater at the Landfill pursuant to the IGP. Chiquita will continue to do so and is committed to compliance with its SWPPP and the IGP through all BMPs and other protocols designed and implemented at the Landfill.

Regards,  
  
Steve Cassulo  
District Manager  
Chiquita Canyon, LLC

Attachments Attachment A  
Attachment B

cc Robert Ragland, Los Angeles County Department of Public Health  
Liza Frias, Los Angeles County Department of Public Health  
Nichole Quick, M.D., Los Angeles County Department of Public Health  
Shikari Nakagawa-Ota, Los Angeles County Department of Public Health  
Ken Habaradas, Los Angeles County Department of Public Health  
Karen Gork, LEA  
Eric Morofuji, LEA  
Renee Jensen, LEA Counsel  
Blaine McPhillips, County Counsel  
Emiko Thompson, Los Angeles County Public Works  
Alex Garcia, Los Angeles County Department of Regional Planning  
Ai-Viet Huynh, Los Angeles County Department of Regional Planning  
Wes Mindermann, CalRecycle  
Janelle Heinzler, CalRecycle  
Jeff Lindberg, California Air Resources Board  
Vanessa Aguila, California Air Resources Board  
Jack Cheng, South Coast Air Quality Management District  
Larry Israel, South Coast Air Quality Management District

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Mr. Sean Lee  
Los Angeles Regional Water Quality Control Board  
Page **11** of **11**

Douglas Cross, Los Angeles Regional Water Quality Control Board  
Thanne Berg, United States Environmental Protection Agency

**ATTACHMENT A**

Chiquita Canyon, LLC (“Chiquita”) submits the following information to address Item 2 of the April 9, 2024 Notice of Violation (“NOV”) issued by the California Regional Water Quality Control Board, Los Angeles Region (“Regional Board”). In Item 2 of the NOV, the Regional Board requested “dates, times, and volumes of discharged water from the basins into local waterways using the pumping equipment.”

**Prior Use of Inlet/Skimmer with Pumping Equipment at Chiquita**

In order to enhance the South Detention Basin’s (“Basin’s”) effectiveness, as described in Section II.1 of Chiquita’s response to the NOV, Chiquita would treat stormwater which accumulated in the Basin with flocculant and allow time for settling before pumping stormwater from the top of the water column in the Basin via a floating inlet/skimmer and pumping equipment to the concrete spillway. The concrete spillway flows to the permitted South discharge outfall, where stormwater is discharged to the Santa Clara River.

While not required by the State Water Resources Control Board’s Industrial General Permit (“IGP”), on certain instances, Chiquita documented information (date and approximate start time), as well as some analytical data,<sup>1</sup> when the inlet/skimmer and pumping equipment were used during dry weather. This information does not include volumes of the discharged stormwater as recording volumes are not required by the IGP. The Basin and the BMP equipment do not have flow metering equipment necessary for such calculations.

To the best of Chiquita’s knowledge, Chiquita used the floating inlet/skimmer and pumping equipment during dry weather on the following approximate dates and times:

<b>Date</b>	<b>Approximate Start Time</b>
May 28, 2020	9:15 a.m.
June 26, 2020	9:05 a.m.
March 19, 2021	9:15 a.m.
April 13, 2022	9:25 a.m.
May 19, 2022	10:20 a.m.
June 10, 2022	9:25 a.m.
November 22, 2022	10:15 a.m.
December 17, 2022	9:15 a.m.
May 30, 2023	11:35 a.m.
January 17, 2024	1:45 p.m.

In addition to discharging during dry weather, Chiquita commonly used the floating inlet/skimmer and pumping equipment (combined with the use of flocculant and a settlement period) following natural discharges. Chiquita believes that the photos provided in the April 9 NOV depict this scenario. Chiquita has not documented all such instances. Chiquita utilized

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<sup>1</sup> See Attachment B to Chiquita’s response to the April 9 NOV.

pumping equipment in conjunction with a natural discharge during many rain events in late 2023 and 2024.

Chiquita hopes that the above data is helpful to the Regional Board's review in the broader context of Chiquita's overall responses to the March 28 and April 9 NOV's. Since the information provided here is not required to be retained under the IGP, the above details are provided solely for informational purposes and based solely upon available information and estimates of Chiquita staff.



WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT

**Work Orders:** 0E28031

**Report Date:** 6/15/2020

**Received Date:** 5/28/2020

**Project:** Chiquita Canyon Landfill - IGP

**Turnaround Time:** Normal

**Phones:** (909) 567-8052

**Fax:** -

**Attn:** Lauren Murphy

**P.O. #:**

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Billing Code:**

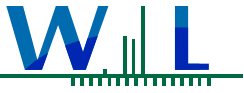
Dear Lauren Murphy :

Enclosed are the results of analyses for samples received 5/28/2020 with the Chain-of-Custody document. The samples were received in good condition, at 1.1 °C and on ice. All analysis met the method criteria except as noted in the case narrative or in the report with data qualifiers.

## Sample Results

Sample: South Sampled: 05/28/20 9:15 by Paul Chang  
0E28031-01 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Method:</b> EPA 1664B Oil & Grease (HEM)	ND	1.3	5.0	mg/l	1	06/11/20	
<b>Batch ID:</b> W0F0723							
<b>Instr:</b> SPE15							
<b>Prepared:</b> 06/11/20 09:15							
<b>Analyst:</b> ier							
<b>Method:</b> EPA 200.7 Iron, Total	0.64	0.0011	0.010	mg/l	1	06/10/20	
<b>Batch ID:</b> W0F0538							
<b>Instr:</b> ICP03							
<b>Prepared:</b> 06/09/20 09:24							
<b>Analyst:</b> kvm							
<b>Method:</b> EPA 300.0 Chloride, Total	140	0.085	0.50	mg/l	1	05/30/20	
<b>Batch ID:</b> W0E1643							
<b>Instr:</b> LC12							
<b>Prepared:</b> 05/29/20 12:26							
<b>Analyst:</b> jna							
<b>Method:</b> Field pH	8.09			pH Units	1	05/28/20 09:15	
<b>Batch ID:</b> W0E1608							
<b>Instr:</b> _FIELD							
<b>Prepared:</b> 05/28/20 09:15							
<b>Analyst:</b> _clnt							
<b>Method:</b> SM 2540D Total Suspended Solids	6	5	5	mg/l	1	06/02/20	
<b>Batch ID:</b> W0F0101							
<b>Instr:</b> OVEN11							
<b>Prepared:</b> 06/02/20 10:04							
<b>Analyst:</b> mfh							
<b>Method:</b> SM 9221B Total Coliform	24000	18	18	MPN/100ml	10	06/01/20	
<b>Batch ID:</b> W0F0589							
<b>Instr:</b> INC12							
<b>Prepared:</b> 05/28/20 14:22							
<b>Analyst:</b> slh							



WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT



## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>Field in Water</b>			
pH	PH		
<b>SM 9221B in Water</b>			
Total Coliform		✓	

Reviewed by:

Kim G. Tu  
Project Manager



ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 •  
NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

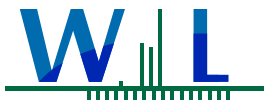
*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*



**Weck Laboratories**

0628031  
Chain of Custody

Report To			Invoice To											Analysis Request					TAT																																										
Company: Waste Connections, Inc.			Contact: Chiquita Canyon Landfill																Standard																																										
Attn: Kelly Kincella			Attn: Maribel Bolanos																Rush																																										
Phone/Fax: 208-691-1977			Address: 29201 Henry Mayo Dr. Castaic, CA 91384																10 Days <input checked="" type="radio"/>																																										
Email Address: Kelly.Kincella@WasteConnections.com			Phone/Fax: (661) 257-3655																Days / Hours <input type="radio"/>																																										
Additionally Report To			Sampler Name: <i>Paul Chang</i>																																																										
ikm@swteng.com / 909-567-8052			<table border="1"> <thead> <tr> <th colspan="3">Project Information</th> <th colspan="4">Container</th> <th colspan="4">Preservative</th> <th colspan="3">Matrix</th> </tr> <tr> <th colspan="3">Project ID: Chiquita Canyon Landfill - IGP</th> <th>40ml Vial</th> <th>Poly</th> <th>Glass</th> <th>Sleeve</th> <th>Other</th> <th>HCl</th> <th>HNO3</th> <th>H2SO4</th> <th>Other</th> <th>None</th> <th>Water</th> <th>Soil</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td colspan="3">Project Number:</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>											Project Information			Container				Preservative				Matrix			Project ID: Chiquita Canyon Landfill - IGP			40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other	Project Number:																	
Project Information														Container				Preservative				Matrix																																							
Project ID: Chiquita Canyon Landfill - IGP														40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other																																			
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aav@swteng.com / 415-717-0910																																																													
pchang@changenvironmental.com																																																													
Sample Identification		Sample Collection		Total Number of Containers per Sample ID											TSS (SM 2540-D) ✓ O&G (EPA 1664A) ✓ Fe (EPA 200.7) Chloride (EPA 300.0) ✓ Coliform Bacteria, Total (EPA 9221.B, C, or E) ✓					Notes																																									
Date	Time																			Field pH:																																									
East	—	—		X	X	X	X	X	X	X	X	X	X	X	X	6	X	X	X	X	X	Field pH: 8.09																																							
South	5/28/10	9:05		X	X	X	X	X	X	X	X	X	X	X	X	6	X	X	X	X	X																																								
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<i>[Signature]</i>			<i>[Signature]</i> 1.1°C T-0222								5/28/10	10:00	State System Number: _____ If "Y" please enter the Source Number(s) in the column above																																																
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													Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____																																																



WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT

Work Orders: 0E28032

Report Date: 6/15/2020

Received Date: 5/28/2020

Project: Chiquita Canyon Landfill - WDR

Turnaround Time: Normal

Phones: (909) 567-8052

Fax: -

Attn: Lauren Murphy

P.O. #:

Client: SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

Billing Code:

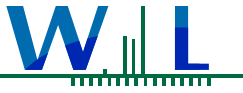
Dear Lauren Murphy :

Enclosed are the results of analyses for samples received 5/28/2020 with the Chain-of-Custody document. The samples were received in good condition, at 1.1 °C and on ice. All analysis met the method criteria except as noted in the case narrative or in the report with data qualifiers.

## Sample Results

Sample: South Sampled: 05/28/20 9:15 by Paul Chang  
0E28032-01 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Method:</b> EPA 200.7	<b>Batch ID:</b> W0F0538	<b>Instr:</b> ICP03	<b>Prepared:</b> 06/09/20 09:24	<b>Analyst:</b> kvm			
Magnesium, Total	31.9	0.0120	0.100	mg/l	1	06/10/20	
Phosphorus, Total	0.13	0.012	0.020	mg/l	1	06/10/20	
<b>Method:</b> EPA 200.8	<b>Batch ID:</b> W0F0541	<b>Instr:</b> ICPMS02	<b>Prepared:</b> 06/09/20 09:34	<b>Analyst:</b> MTT			
Arsenic, Total	14	0.074	0.40	ug/l	1	06/10/20	
Cadmium, Total	0.050	0.041	0.10	ug/l	1	06/10/20	J
Lead, Total	1.4	0.031	0.20	ug/l	1	06/10/20	
Selenium, Total	1.0	0.14	0.40	ug/l	1	06/10/20	
Silver, Total	ND	0.062	0.20	ug/l	1	06/10/20	
Zinc, Total	25	0.94	5.0	ug/l	1	06/10/20	
<b>Method:</b> EPA 245.1	<b>Batch ID:</b> W0F0529	<b>Instr:</b> hg03	<b>Prepared:</b> 06/09/20 10:05	<b>Analyst:</b> mem			
Mercury, Total	0.024	0.017	0.050	ug/l	1	06/09/20	J
<b>Method:</b> EPA 335.4	<b>Batch ID:</b> W0F0024	<b>Instr:</b> AA01	<b>Prepared:</b> 06/01/20 10:58	<b>Analyst:</b> SAR			
Cyanide, Total	ND	3.8	5.0	ug/l	1	06/04/20	
<b>Method:</b> EPA 350.1	<b>Batch ID:</b> W0E1547	<b>Instr:</b> AA06	<b>Prepared:</b> 05/28/20 11:17	<b>Analyst:</b> YMT			
Ammonia as N	0.74	0.012	0.10	mg/l	1	05/28/20	
<b>Method:</b> EPA 353.2	<b>Batch ID:</b> W0E1613	<b>Instr:</b> AA01	<b>Prepared:</b> 05/28/20 12:15	<b>Analyst:</b> sar			
NO2+NO3 as N	130	36	200	ug/l	1	05/28/20	J
<b>Method:</b> EPA 410.4	<b>Batch ID:</b> W0E1658	<b>Instr:</b> UVVIS04	<b>Prepared:</b> 05/29/20 10:20	<b>Analyst:</b> ssi			
Chemical Oxygen Demand	250	2.9	5.0	mg/l	1	06/01/20	
<b>Method:</b> EPA 8260B	<b>Batch ID:</b> W0E1645	<b>Instr:</b> GCMS18	<b>Prepared:</b> 05/29/20 08:02	<b>Analyst:</b> rdt			
Benzene	ND	0.30	1.0	ug/l	1	05/29/20	



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# Certificate of Analysis

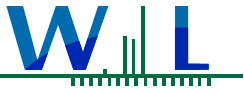
FINAL REPORT

## Sample Results

(Continued)

Sample: South Sampled: 05/28/20 9:15 by Paul Chang  
 0E28032-01 (Water) (Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier	
<b>Method:</b> EPA 8260B (Continued)		<b>Batch ID:</b> W0E1645		<b>Instr:</b> GCMS18		<b>Prepared:</b> 05/29/20 08:02		<b>Analyst:</b> rdt
Ethylbenzene	ND	0.43	1.0	ug/l	1	05/29/20		
m,p-Xylene	ND	0.70	1.0	ug/l	1	05/29/20		
o-Xylene	ND	0.32	1.0	ug/l	1	05/29/20		
Toluene	ND	0.45	1.0	ug/l	1	05/29/20		
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	101%		86-126	Conc: 50.3		05/29/20		
4-Bromofluorobenzene	108%		80-112	Conc: 53.8		05/29/20		
Dibromofluoromethane	106%		89-120	Conc: 53.1		05/29/20		
Toluene-d8	98%		91-111	Conc: 49.0		05/29/20		
<b>Method:</b> Field		<b>Batch ID:</b> W0E1677		<b>Instr:</b> _FIELD		<b>Prepared:</b> 05/28/20 09:15		<b>Analyst:</b> _clnt
pH	8.09			pH Units	1	05/28/20 09:15		



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FINAL REPORT



## Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>Field in Water</b>			
pH	PH		

Reviewed by:

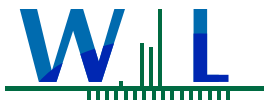
Kim G. Tu  
Project Manager



ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 •  
NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*





WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT

**Work Orders:** 0F26036

**Report Date:** 7/14/2020

**Received Date:** 6/26/2020

**Project:** Chiquita Canyon Landfill - IGP

**Turnaround Time:** Normal

**Phones:** (909) 567-8052

**Fax:** -

**Attn:** Lauren Murphy

**P.O. #:**

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Billing Code:**

ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 •  
NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

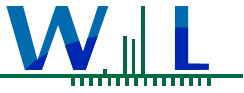
Dear Lauren Murphy,

Enclosed are the results of analyses for samples received 6/26/20 with the Chain-of-Custody document. The samples were received in good condition, at 4.6 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**

Kim G. Tu  
Project Manager





WECK LABORATORIES, INC.

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

# Certificate of Analysis

FINAL REPORT

**Project Number:** Chiquita Canyon Landfill - IGP

**Reported:**

07/14/2020 16:31

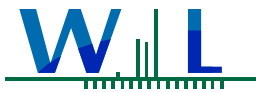
**Project Manager:** Lauren Murphy

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	0F26036-01	Water	06/26/20 09:05	

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>Field in Water</b>			
pH	PH		
<b>SM 9221B/E in Water</b>			
Total Coliform		✓	
Fecal Coliform		✓	



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Ontario, CA 91761

# Certificate of Analysis

FINAL REPORT

**Project Number:** Chiquita Canyon Landfill - IGP

**Reported:**

07/14/2020 16:31

**Project Manager:** Lauren Murphy

## Sample Results

Sample: South Sampled: 06/26/20 9:05 by Paul Chang  
0F26036-01 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Anions by IC, EPA Method 300.0

<b>Method:</b> EPA 300.0	<b>Batch ID:</b> W0G0522	<b>Instr:</b> LC04	<b>Prepared:</b> 07/10/20 16:31	<b>Analyst:</b> jna			
<b>Chloride, Total</b>	<b>350</b>	1.7	10	mg/l	20	07/13/20	

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

<b>Method:</b> EPA 1664B	<b>Batch ID:</b> W0G0134	<b>Instr:</b> SPE15	<b>Prepared:</b> 07/06/20 08:57	<b>Analyst:</b> blg			
<b>Oil &amp; Grease (HEM)</b>	<b>1.0</b>	0.7	5.0	mg/l	1	07/06/20	J

<b>Method:</b> EPA 350.1	<b>Batch ID:</b> W0F1713	<b>Instr:</b> AA06	<b>Prepared:</b> 06/29/20 10:46	<b>Analyst:</b> YMT			
<b>Ammonia as N</b>	<b>1.0</b>	0.012	0.10	mg/l	1	07/01/20	

<b>Method:</b> EPA 353.2	<b>Batch ID:</b> W0F1635	<b>Instr:</b> AA01	<b>Prepared:</b> 06/26/20 11:02	<b>Analyst:</b> SAR			
<b>NO2+NO3 as N</b>	<b>81</b>	36	200	ug/l	1	06/26/20	J

<b>Method:</b> EPA 410.4	<b>Batch ID:</b> W0F1774	<b>Instr:</b> UVVIS04	<b>Prepared:</b> 06/30/20 09:23	<b>Analyst:</b> ssi			
<b>Chemical Oxygen Demand</b>	<b>250</b>	2.9	5.0	mg/l	1	07/01/20	

<b>Method:</b> SM 2540D	<b>Batch ID:</b> W0F1785	<b>Instr:</b> OVEN11	<b>Prepared:</b> 06/30/20 10:09	<b>Analyst:</b> mfh			
<b>Total Suspended Solids</b>	<b>9</b>		5	mg/l	1	06/30/20	

### Field Determinations

<b>Method:</b> Field	<b>Batch ID:</b> W0F1642	<b>Instr:</b> _FIELD	<b>Prepared:</b> 06/26/20 09:05	<b>Analyst:</b> _clnt			
<b>pH</b>	<b>7.96</b>			pH Units	1	06/26/20 09:05	

### Metals by EPA 200 Series Methods

<b>Method:</b> EPA 200.7	<b>Batch ID:</b> W0F1795	<b>Instr:</b> ICP03	<b>Prepared:</b> 06/30/20 11:38	<b>Analyst:</b> kvm			
<b>Iron, Total</b>	<b>0.53</b>	0.0011	0.010	mg/l	1	07/02/20	

<b>Magnesium, Total</b>	<b>34.0</b>	0.0120	0.100	mg/l	1	07/02/20	
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<b>Phosphorus, Total</b>	<b>0.13</b>	0.012	0.020	mg/l	1	07/02/20	
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<b>Method:</b> EPA 200.8	<b>Batch ID:</b> W0F1796	<b>Instr:</b> ICPMS02	<b>Prepared:</b> 06/30/20 11:45	<b>Analyst:</b> MTT			
<b>Arsenic, Total</b>	<b>17</b>	0.074	0.40	ug/l	1	07/02/20	

Cadmium, Total	ND	0.041	0.10	ug/l	1	07/02/20	
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<b>Lead, Total</b>	<b>1.4</b>	0.031	0.20	ug/l	1	07/02/20	
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Silver, Total	ND	0.062	0.20	ug/l	1	07/02/20	
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<b>Zinc, Total</b>	<b>140</b>	0.94	5.0	ug/l	1	07/02/20	
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<b>Method:</b> EPA 245.1	<b>Batch ID:</b> W0F1747	<b>Instr:</b> HG03	<b>Prepared:</b> 06/29/20 15:30	<b>Analyst:</b> mem			
<b>Mercury, Total</b>	<b>0.027</b>	0.017	0.050	ug/l	1	06/30/20	J

### Microbiological Parameters by Standard Methods

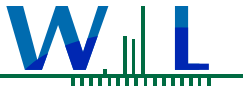
<b>Method:</b> SM 9221B/E	<b>Batch ID:</b> W0G0275	<b>Instr:</b> WB09	<b>Prepared:</b> 06/26/20 12:01	<b>Analyst:</b> slh			
<b>Fecal Coliform</b>	<b>ND</b>	18	18	MPN/100ml	10	06/29/20	

<b>Total Coliform</b>	<b>390</b>	18	18	MPN/100ml	10	06/30/20	
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### Volatile Organic Compounds by P&T and GC/MS

<b>Method:</b> EPA 8260B	<b>Batch ID:</b> W0F1769	<b>Instr:</b> GCMS18	<b>Prepared:</b> 06/30/20 06:57	<b>Analyst:</b> rdt			
<b>Benzene</b>	<b>ND</b>	0.30	1.0	ug/l	1	06/30/20	

<b>Ethylbenzene</b>	<b>ND</b>	0.43	1.0	ug/l	1	06/30/20	
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SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

# Certificate of Analysis

FINAL REPORT

**Project Number:** Chiquita Canyon Landfill - IGP

**Reported:**

07/14/2020 16:31

**Project Manager:** Lauren Murphy

## Sample Results

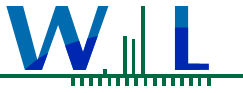
(Continued)

Sample: South  
0F26036-01 (Water) Sampled: 06/26/20 9:05 by Paul Chang  
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>							
<b>Method:</b> EPA 8260B	<b>Batch ID:</b> W0F1769	<b>Instr:</b> GCMS18	<b>Prepared:</b> 06/30/20 06:57	<b>Analyst:</b> rdt			
m,p-Xylene	ND	0.70	1.0	ug/l	1	06/30/20	
o-Xylene	ND	0.32	1.0	ug/l	1	06/30/20	
Toluene	ND	0.45	1.0	ug/l	1	06/30/20	
<i>Surrogate(s)</i>							
1,2-Dichloroethane-d4	106%	Conc: 53.0	86-126			06/30/20	
4-Bromofluorobenzene	98%	Conc: 48.8	80-112			06/30/20	
Dibromofluoromethane	111%	Conc: 55.3	89-120			06/30/20	
Toluene-d8	104%	Conc: 51.9	91-111			06/30/20	

Sample: South  
0F26036-01RE1 (Water) Sampled: 06/26/20 9:05 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> EPA 335.4	<b>Batch ID:</b> W0F1759	<b>Instr:</b> AA01	<b>Prepared:</b> 06/29/20 16:22	<b>Analyst:</b> ymt			
Cyanide, Total	ND	3.8	5.0	ug/l	1	06/30/20	
<b>Metals by EPA 200 Series Methods</b>							
<b>Method:</b> EPA 200.8	<b>Batch ID:</b> W0F1796	<b>Instr:</b> ICPMS02	<b>Prepared:</b> 06/30/20 11:45	<b>Analyst:</b> MTT			
Selenium, Total	1.1	0.14	0.40	ug/l	1	07/06/20	



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# Certificate of Analysis

FINAL REPORT

Project Number: Chiquita Canyon Landfill - IGP

Reported:

07/14/2020 16:31

Project Manager: Lauren Murphy

## Quality Control Results

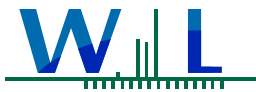
Anions by IC, EPA Method 300.0

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W0G0522 - EPA 300.0</b>											
<b>Blank (W0G0522-BLK1)</b>											
Chloride, Total	0.102	0.085	0.50	mg/l							B-06, J
<b>LCS (W0G0522-BS1)</b>											
Chloride, Total	5.13	0.085	0.50	mg/l	5.00		103	90-110			
<b>Matrix Spike (W0G0522-MS1)</b>											
Chloride, Total	770	1.7	10	mg/l	100	666	104	80-118			
<b>Matrix Spike (W0G0522-MS2)</b>											
Chloride, Total	287	1.7	10	mg/l	100	172	115	80-118			
<b>Matrix Spike Dup (W0G0522-MSD1)</b>											
Chloride, Total	766	1.7	10	mg/l	100	666	100	80-118	0.5	20	
<b>Matrix Spike Dup (W0G0522-MSD2)</b>											
Chloride, Total	286	1.7	10	mg/l	100	172	114	80-118	0.5	20	

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W0F1635 - EPA 353.2</b>											
<b>Blank (W0F1635-BLK1)</b>											
NO2+NO3 as N	ND	36	200	ug/l							
<b>LCS (W0F1635-BS1)</b>											
NO2+NO3 as N	998	36	200	ug/l	1000		100	90-110			
<b>Matrix Spike (W0F1635-MS1)</b>											
NO2+NO3 as N	2050	36	200	ug/l	2000	ND	102	90-110			
<b>Matrix Spike Dup (W0F1635-MSD1)</b>											
NO2+NO3 as N	2060	36	200	ug/l	2000	ND	103	90-110	0.5	20	
<b>Batch: W0F1713 - EPA 350.1</b>											
<b>Blank (W0F1713-BLK1)</b>											
Ammonia as N	ND	0.012	0.10	mg/l							
<b>Blank (W0F1713-BLK2)</b>											
Ammonia as N	ND	0.012	0.10	mg/l							
<b>LCS (W0F1713-BS1)</b>											
Ammonia as N	0.244	0.012	0.10	mg/l	0.250		97	90-110			
<b>LCS (W0F1713-BS2)</b>											
Ammonia as N	0.250	0.012	0.10	mg/l	0.250		100	90-110			
<b>Matrix Spike (W0F1713-MS1)</b>											
Ammonia as N	0.588	0.012	0.10	mg/l	0.250	0.348	96	90-110			
<b>Matrix Spike (W0F1713-MS2)</b>											
Ammonia as N	0.258	0.012	0.10	mg/l	0.250	0.0125	98	90-110			



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SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

# Certificate of Analysis

FINAL REPORT

**Project Number:** Chiquita Canyon Landfill - IGP

**Reported:**

07/14/2020 16:31

**Project Manager:** Lauren Murphy

## Quality Control Results

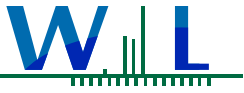
(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W0F1713 - EPA 350.1 (Continued)</b>											
<b>Matrix Spike Dup (W0F1713-MSD1)</b>	<b>Source: 0F05004-01</b>				<b>Prepared: 06/29/20</b>		<b>Analyzed: 07/01/20</b>				
Ammonia as N	0.593	0.012	0.10	mg/l	0.250	0.348	98	90-110	0.9	15	
<b>Matrix Spike Dup (W0F1713-MSD2)</b>	<b>Source: 0F24064-16</b>				<b>Prepared: 06/29/20</b>		<b>Analyzed: 07/01/20</b>				
Ammonia as N	0.261	0.012	0.10	mg/l	0.250	0.0125	99	90-110	1	15	
<b>Batch: W0F1759 - EPA 335.4</b>											
<b>Blank (W0F1759-BLK1)</b>					<b>Prepared: 06/29/20</b>		<b>Analyzed: 06/30/20</b>				
Cyanide, Total	ND	3.8	5.0	ug/l							
<b>LCS (W0F1759-BS1)</b>					<b>Prepared: 06/29/20</b>		<b>Analyzed: 06/30/20</b>				
Cyanide, Total	96.1	3.8	5.0	ug/l	100		96	90-110			
<b>Matrix Spike (W0F1759-MS1)</b>	<b>Source: 0F26067-01</b>				<b>Prepared: 06/29/20</b>		<b>Analyzed: 06/30/20</b>				
Cyanide, Total	197	3.8	5.0	ug/l	200	ND	98	90-110			
<b>Matrix Spike Dup (W0F1759-MSD1)</b>	<b>Source: 0F26067-01</b>				<b>Prepared: 06/29/20</b>		<b>Analyzed: 06/30/20</b>				
Cyanide, Total	184	3.8	5.0	ug/l	200	ND	92	90-110	7	20	
<b>Batch: W0F1774 - EPA 410.4</b>											
<b>Blank (W0F1774-BLK1)</b>					<b>Prepared: 06/30/20</b>		<b>Analyzed: 07/01/20</b>				
Chemical Oxygen Demand	ND	2.9	5.0	mg/l							
<b>LCS (W0F1774-BS1)</b>					<b>Prepared: 06/30/20</b>		<b>Analyzed: 07/01/20</b>				
Chemical Oxygen Demand	922	2.9	5.0	mg/l	1000		92	90-110			
<b>Duplicate (W0F1774-DUP1)</b>	<b>Source: 0F26012-01</b>				<b>Prepared: 06/30/20</b>		<b>Analyzed: 07/01/20</b>				
Chemical Oxygen Demand	13200	110	200	mg/l		12500			5	15	
<b>Matrix Spike (W0F1774-MS1)</b>	<b>Source: 0F26066-01</b>				<b>Prepared: 06/30/20</b>		<b>Analyzed: 07/01/20</b>				
Chemical Oxygen Demand	234	11	20	mg/l	200	47.2	93	90-110			
<b>Matrix Spike (W0F1774-MS2)</b>	<b>Source: 0F23004-01</b>				<b>Prepared: 06/30/20</b>		<b>Analyzed: 07/01/20</b>				
Chemical Oxygen Demand	2520	11	20	mg/l	2000	668	93	90-110			
<b>Matrix Spike Dup (W0F1774-MSD1)</b>	<b>Source: 0F26066-01</b>				<b>Prepared: 06/30/20</b>		<b>Analyzed: 07/01/20</b>				
Chemical Oxygen Demand	242	11	20	mg/l	200	47.2	97	90-110	3	15	
<b>Matrix Spike Dup (W0F1774-MSD2)</b>	<b>Source: 0F23004-01</b>				<b>Prepared: 06/30/20</b>		<b>Analyzed: 07/01/20</b>				
Chemical Oxygen Demand	2520	11	20	mg/l	2000	668	93	90-110	0	15	
<b>Batch: W0F1785 - SM 2540D</b>											
<b>Blank (W0F1785-BLK1)</b>					<b>Prepared &amp; Analyzed: 06/30/20</b>						
Total Suspended Solids	ND		5	mg/l							
<b>LCS (W0F1785-BS1)</b>					<b>Prepared &amp; Analyzed: 06/30/20</b>						
Total Suspended Solids	258		5	mg/l	245		105	90-110			
<b>Duplicate (W0F1785-DUP1)</b>	<b>Source: 0F26062-01</b>				<b>Prepared &amp; Analyzed: 06/30/20</b>						
Total Suspended Solids	6.80		5	mg/l		7.50			10	20	
<b>Duplicate (W0F1785-DUP2)</b>	<b>Source: 0F24047-01</b>				<b>Prepared &amp; Analyzed: 06/30/20</b>						
Total Suspended Solids	76.0		5	mg/l		66.7			13	20	
<b>Batch: W0G0134 - EPA 1664B</b>											

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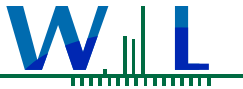
**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W0G0134 - EPA 1664B (Continued)</b>											
<b>Blank (W0G0134-BLK1)</b>											
Oil & Grease (HEM)	ND	0.7	5.0	mg/l							
<b>Prepared &amp; Analyzed: 07/06/20</b>											
<b>LCS (W0G0134-BS1)</b>											
Oil & Grease (HEM)	17.2	0.7	5.0	mg/l	20.0		86	78-114			
<b>Prepared &amp; Analyzed: 07/06/20</b>											
<b>LCS (W0G0134-BS2)</b>											
Oil & Grease (HEM)	4.00	0.7	5.0	mg/l	5.00		80	78-114			J
<b>Prepared &amp; Analyzed: 07/06/20</b>											
<b>LCS Dup (W0G0134-BSD1)</b>											
Oil & Grease (HEM)	17.3	0.7	5.0	mg/l	20.0		86	78-114	0.6	18	



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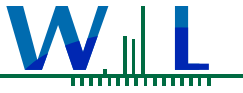
Project Manager: Lauren Murphy

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W0F1747 - EPA 245.1</b>											
<b>Blank (W0F1747-BLK1)</b>					<b>Prepared: 06/29/20 Analyzed: 06/30/20</b>						
Mercury, Total	ND	0.017	0.050	ug/l							
<b>LCS (W0F1747-BS1)</b>					<b>Prepared: 06/29/20 Analyzed: 06/30/20</b>						
Mercury, Total	1.09	0.017	0.050	ug/l	1.00		109	85-115			
<b>Matrix Spike (W0F1747-MS1)</b>					<b>Source: 0F19019-01 Prepared: 06/29/20 Analyzed: 06/30/20</b>						
Mercury, Total	0.994	0.017	0.050	ug/l	1.00	0.0198	97	70-130			
<b>Matrix Spike (W0F1747-MS2)</b>					<b>Source: 0F26067-01 Prepared: 06/29/20 Analyzed: 06/30/20</b>						
Mercury, Total	0.990	0.017	0.050	ug/l	1.00	0.0171	97	70-130			
<b>Matrix Spike Dup (W0F1747-MSD1)</b>					<b>Source: 0F19019-01 Prepared: 06/29/20 Analyzed: 06/30/20</b>						
Mercury, Total	0.993	0.017	0.050	ug/l	1.00	0.0198	97	70-130	0.03	20	
<b>Matrix Spike Dup (W0F1747-MSD2)</b>					<b>Source: 0F26067-01 Prepared: 06/29/20 Analyzed: 06/30/20</b>						
Mercury, Total	1.01	0.017	0.050	ug/l	1.00	0.0171	100	70-130	2	20	
<b>Batch: W0F1795 - EPA 200.7</b>											
<b>Blank (W0F1795-BLK1)</b>					<b>Prepared: 06/30/20 Analyzed: 07/02/20</b>						
Iron, Total	ND	0.0011	0.010	mg/l							
Magnesium, Total	ND	0.0120	0.100	mg/l							
Phosphorus, Total	ND	0.012	0.020	mg/l							
<b>LCS (W0F1795-BS1)</b>					<b>Prepared: 06/30/20 Analyzed: 07/02/20</b>						
Iron, Total	0.206	0.0011	0.010	mg/l	0.200		103	85-115			
Magnesium, Total	51.9	0.0120	0.100	mg/l	50.1		104	85-115			
Phosphorus, Total	1.10	0.012	0.020	mg/l	0.999		110	85-115			
<b>Matrix Spike (W0F1795-MS1)</b>					<b>Source: 0F24060-01 Prepared: 06/30/20 Analyzed: 07/02/20</b>						
Iron, Total	0.226	0.0011	0.010	mg/l	0.200	0.0198	103	70-130			
Magnesium, Total	77.0	0.0120	0.100	mg/l	50.1	26.2	101	70-130			
Phosphorus, Total	6.51	0.012	0.020	mg/l	0.999	5.54	97	70-130			
<b>Matrix Spike Dup (W0F1795-MSD1)</b>					<b>Source: 0F24060-01 Prepared: 06/30/20 Analyzed: 07/02/20</b>						
Iron, Total	0.226	0.0011	0.010	mg/l	0.200	0.0198	103	70-130	0.04	30	
Magnesium, Total	76.9	0.0120	0.100	mg/l	50.1	26.2	101	70-130	0.08	30	
Phosphorus, Total	6.45	0.012	0.020	mg/l	0.999	5.54	92	70-130	0.8	30	
<b>Batch: W0F1796 - EPA 200.8</b>											
<b>Blank (W0F1796-BLK1)</b>					<b>Prepared: 06/30/20 Analyzed: 07/02/20</b>						
Arsenic, Total	ND	0.074	0.40	ug/l							
Cadmium, Total	ND	0.041	0.10	ug/l							
Lead, Total	ND	0.031	0.20	ug/l							
Selenium, Total	ND	0.14	0.40	ug/l							
Silver, Total	ND	0.062	0.20	ug/l							
Zinc, Total	ND	0.94	5.0	ug/l							
<b>Blank (W0F1796-BLK2)</b>					<b>Prepared: 06/30/20 Analyzed: 07/06/20</b>						
Selenium, Total	ND	0.14	0.40	ug/l							



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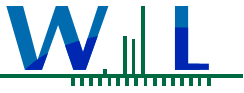
Project Manager: Lauren Murphy

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W0F1796 - EPA 200.8 (Continued)</b>											
<b>LCS (W0F1796-BS1)</b>											
						<b>Prepared: 06/30/20 Analyzed: 07/02/20</b>					
Arsenic, Total	51.8	0.074	0.40	ug/l	50.0		104	85-115			
Cadmium, Total	49.6	0.041	0.10	ug/l	50.0		99	85-115			
Lead, Total	48.9	0.031	0.20	ug/l	50.0		98	85-115			
Selenium, Total	48.7	0.14	0.40	ug/l	50.0		97	85-115			
Silver, Total	48.9	0.062	0.20	ug/l	50.0		98	85-115			
Zinc, Total	52.2	0.94	5.0	ug/l	50.0		104	85-115			
<b>LCS (W0F1796-BS2)</b>											
						<b>Prepared: 06/30/20 Analyzed: 07/06/20</b>					
Selenium, Total	48.4	0.14	0.40	ug/l	50.0		97	85-115			
<b>Matrix Spike (W0F1796-MS1)</b>											
						<b>Source: 0F26055-01</b>					
						<b>Prepared: 06/30/20 Analyzed: 07/02/20</b>					
Arsenic, Total	55.8	0.074	0.40	ug/l	50.0	2.00	108	70-130			
Cadmium, Total	47.2	0.041	0.10	ug/l	50.0	0.140	94	70-130			
Lead, Total	47.2	0.031	0.20	ug/l	50.0	0.300	94	70-130			
Selenium, Total	49.3	0.14	0.40	ug/l	50.0	0.330	98	70-130			
Silver, Total	45.0	0.062	0.20	ug/l	50.0	ND	90	70-130			
Zinc, Total	86.1	0.94	5.0	ug/l	50.0	38.8	95	70-130			
<b>Matrix Spike (W0F1796-MS2)</b>											
						<b>Source: 0F29075-01</b>					
						<b>Prepared: 06/30/20 Analyzed: 07/02/20</b>					
Arsenic, Total	55.7	0.074	0.40	ug/l	50.0	2.36	107	70-130			
Cadmium, Total	47.8	0.041	0.10	ug/l	50.0	ND	96	70-130			
Lead, Total	50.7	0.031	0.20	ug/l	50.0	3.41	95	70-130			
Selenium, Total	50.7	0.14	0.40	ug/l	50.0	1.40	99	70-130			
Silver, Total	45.7	0.062	0.20	ug/l	50.0	ND	91	70-130			
Zinc, Total	471	0.94	5.0	ug/l	50.0	419	105	70-130			
<b>Matrix Spike (W0F1796-MS3)</b>											
						<b>Source: 0F26055-01</b>					
						<b>Prepared: 06/30/20 Analyzed: 07/06/20</b>					
Selenium, Total	48.8	0.14	0.40	ug/l	50.0	0.330	97	70-130			
<b>Matrix Spike Dup (W0F1796-MSD1)</b>											
						<b>Source: 0F26055-01</b>					
						<b>Prepared: 06/30/20 Analyzed: 07/02/20</b>					
Arsenic, Total	56.1	0.074	0.40	ug/l	50.0	2.00	108	70-130	0.7	30	
Cadmium, Total	47.7	0.041	0.10	ug/l	50.0	0.140	95	70-130	1	30	
Lead, Total	47.7	0.031	0.20	ug/l	50.0	0.300	95	70-130	1	30	
Selenium, Total	49.5	0.14	0.40	ug/l	50.0	0.330	98	70-130	0.4	30	
Silver, Total	45.7	0.062	0.20	ug/l	50.0	ND	91	70-130	1	30	
Zinc, Total	86.6	0.94	5.0	ug/l	50.0	38.8	95	70-130	0.5	30	
<b>Matrix Spike Dup (W0F1796-MSD2)</b>											
						<b>Source: 0F29075-01</b>					
						<b>Prepared: 06/30/20 Analyzed: 07/02/20</b>					
Arsenic, Total	56.6	0.074	0.40	ug/l	50.0	2.36	108	70-130	1	30	
Cadmium, Total	48.5	0.041	0.10	ug/l	50.0	ND	97	70-130	2	30	
Lead, Total	51.4	0.031	0.20	ug/l	50.0	3.41	96	70-130	1	30	
Selenium, Total	50.7	0.14	0.40	ug/l	50.0	1.40	99	70-130	0.1	30	
Silver, Total	46.5	0.062	0.20	ug/l	50.0	ND	93	70-130	2	30	
Zinc, Total	477	0.94	5.0	ug/l	50.0	419	116	70-130	1	30	



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## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods (Continued)

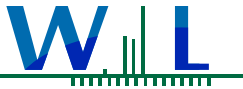
Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W0F1796 - EPA 200.8 (Continued)</b>											
<b>Matrix Spike Dup (W0F1796-MSD3)</b>											
<b>Source: 0F26055-01</b>											
<b>Prepared: 06/30/20 Analyzed: 07/06/20</b>											
Selenium, Total	49.3	0.14	0.40	ug/l	50.0	0.330	98	70-130	1	30	

## Quality Control Results

(Continued)

### Microbiological Parameters by Standard Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W0G0275 - SM 9221B/E</b>											
<b>Blank (W0G0275-BLK6)</b>											
<b>Prepared: 06/23/20 Analyzed: 06/26/20</b>											
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							
<b>Blank (W0G0275-BLK7)</b>											
<b>Prepared: 06/26/20 Analyzed: 06/29/20</b>											
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							
<b>Blank (W0G0275-BLK8)</b>											
<b>Prepared: 06/29/20 Analyzed: 07/01/20</b>											
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							
<b>Blank (W0G0275-BLKB)</b>											
<b>Prepared: 06/30/20 Analyzed: 07/02/20</b>											
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							
<b>Blank (W0G0275-BLKC)</b>											
<b>Prepared: 06/30/20 Analyzed: 07/06/20</b>											
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							



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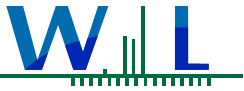
**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W0F1769 - EPA 8260B</b>											
<b>Blank (W0F1769-BLK1)</b>					<b>Prepared &amp; Analyzed: 06/30/20</b>						
Benzene	ND	0.30	1.0	ug/l							
Ethylbenzene	ND	0.43	1.0	ug/l							
m,p-Xylene	ND	0.70	1.0	ug/l							
o-Xylene	ND	0.32	1.0	ug/l							
Toluene	ND	0.45	1.0	ug/l							
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	51.6			ug/l	50.0		103	86-126			
4-Bromofluorobenzene	48.2			ug/l	50.0		96	80-112			
Dibromofluoromethane	55.0			ug/l	50.0		110	89-120			
Toluene-d8	51.2			ug/l	50.0		102	91-111			
<b>LCS (W0F1769-BS1)</b>					<b>Prepared &amp; Analyzed: 06/30/20</b>						
Benzene	51.5	0.30	1.0	ug/l	50.0		103	80-117			
Ethylbenzene	43.5	0.43	1.0	ug/l	50.0		87	76-131			
m,p-Xylene	45.0	0.70	1.0	ug/l	50.0		90	80-126			
o-Xylene	43.9	0.32	1.0	ug/l	50.0		88	84-121			
Toluene	51.2	0.45	1.0	ug/l	50.0		102	82-122			
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	54.3			ug/l	50.0		109	86-126			
4-Bromofluorobenzene	49.6			ug/l	50.0		99	80-112			
Dibromofluoromethane	53.7			ug/l	50.0		107	89-120			
Toluene-d8	52.3			ug/l	50.0		105	91-111			
<b>LCS Dup (W0F1769-BSD1)</b>					<b>Prepared &amp; Analyzed: 06/30/20</b>						
Benzene	50.2	0.30	1.0	ug/l	50.0		100	80-117	2	25	
Ethylbenzene	43.4	0.43	1.0	ug/l	50.0		87	76-131	0.5	25	
m,p-Xylene	44.7	0.70	1.0	ug/l	50.0		89	80-126	0.7	25	
o-Xylene	43.7	0.32	1.0	ug/l	50.0		87	84-121	0.4	25	
Toluene	50.1	0.45	1.0	ug/l	50.0		100	82-122	2	25	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	55.8			ug/l	50.0		112	86-126			
4-Bromofluorobenzene	50.2			ug/l	50.0		100	80-112			
Dibromofluoromethane	53.3			ug/l	50.0		107	89-120			
Toluene-d8	52.5			ug/l	50.0		105	91-111			
<b>Matrix Spike (W0F1769-MS1)</b>					<b>Source: 0F30018-01</b>		<b>Prepared &amp; Analyzed: 06/30/20</b>				
Benzene	54.2	0.30	1.0	ug/l	50.0	ND	108	74-114			
Ethylbenzene	7.85	0.43	1.0	ug/l	50.0	ND	16	75-123			MS-05
m,p-Xylene	ND	0.70	1.0	ug/l	50.0	ND		76-124			MS-05
o-Xylene	ND	0.32	1.0	ug/l	50.0	ND		76-123			MS-05
Toluene	6.52	0.45	1.0	ug/l	50.0	ND	13	79-123			MS-05
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	60.9			ug/l	50.0		122	86-126			



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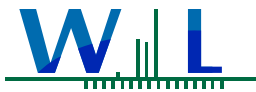
**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W0F1769 - EPA 8260B (Continued)</b>											
<b>Matrix Spike (W0F1769-MS1)</b>			<b>Source: 0F30018-01</b>			<b>Prepared &amp; Analyzed: 06/30/20</b>					
<i>Surrogate(s)</i>											
4-Bromofluorobenzene	47.0			ug/l	50.0		94	80-112			
Dibromofluoromethane	55.2			ug/l	50.0		110	89-120			
Toluene-d8	50.1			ug/l	50.0		100	91-111			
<b>Matrix Spike Dup (W0F1769-MSD1)</b>			<b>Source: 0F30018-01</b>			<b>Prepared &amp; Analyzed: 06/30/20</b>					
Benzene	52.2	0.30	1.0	ug/l	50.0	ND	104	74-114	4	25	
Ethylbenzene	5.77	0.43	1.0	ug/l	50.0	ND	12	75-123	31	25	MS-05
m,p-Xylene	ND	0.70	1.0	ug/l	50.0	ND		76-124		25	MS-05
o-Xylene	ND	0.32	1.0	ug/l	50.0	ND		76-123		25	MS-05
Toluene	4.48	0.45	1.0	ug/l	50.0	ND	9	79-123	37	25	MS-05
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	59.3			ug/l	50.0		119	86-126			
4-Bromofluorobenzene	46.4			ug/l	50.0		93	80-112			
Dibromofluoromethane	55.8			ug/l	50.0		112	89-120			
Toluene-d8	49.7			ug/l	50.0		99	91-111			



WECK LABORATORIES, INC.

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

# Certificate of Analysis

FINAL REPORT

**Project Number:** Chiquita Canyon Landfill - IGP

**Reported:**

07/14/2020 16:31

**Project Manager:** Lauren Murphy



## Notes and Definitions

Item	Definition
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
J	Estimated conc. detected <MRL and >MDL.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



**Weck Laboratories**

**Chain of Custody**

0F26036 Pg 1 of 1

Report To			Invoice To			Analysis Request															TAT																																																																																						
Company: Waste Connections, Inc.			Contact: Chiquita Canyon Landfill			<table border="1"> <tr> <td colspan="15">Standard</td> <td colspan="2">Rush</td> </tr> <tr> <td colspan="15">10 Days</td> <td colspan="2">Days / Hours</td> </tr> <tr> <td colspan="15" style="text-align: center;">●</td> <td colspan="2" style="text-align: center;">○</td> </tr> <tr> <td colspan="17" style="text-align: center;">Parameters for Contaminated Soils WDR R4-2011-0052</td> </tr> <tr> <td colspan="17" style="text-align: center;">Notes</td> </tr> </table>															Standard															Rush		10 Days															Days / Hours		●															○		Parameters for Contaminated Soils WDR R4-2011-0052																	Notes																		
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Notes																																																																																																											
Attn: Kelly Kincella			Attn: Maribel Bolanos																																																																																																								
Phone/Fax: 208-691-1977			Address: 29201 Henry Mayo Dr. Castaic, CA 91384																																																																																																								
Email Address: Kelly.Kincella@WasteConnections.com			Phone/Fax: (661) 257-3655																																																																																																								
Additionally Report To			Sampler Name:			Total Number of Containers per Sample ID																																																																																																					
lkm@swteng.com / 909-567-8052			Paul Chang																																																																																																								
aav@swteng.com / 415-717-0910																																																																																																											
pchang@changenvironmental.com																																																																																																											
Project Information			Container			Preservative			Matrix																																																																																																		
Project ID: Chiquita Canyon Landfill - WDR																																																																																																											
Project Number:																																																																																																											
Sample Identification	Sample Collection		40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other	Ammonia (SM 4500)	COD (SM 5220 C)	Cyanide, Total (SM 4500 CN C, D, or E)	Nitrate + Nitrite Nitrogen (SM 4500-NO3-E)	Phosphorous, Total (SM 4500-P B+E)	Arsenic, Total (EPA 200.8)	Cadmium, Total (EPA 200.8)	Lead, Total (EPA 200.8)	Magnesium, Total (EPA 200.7)	Mercury, Total (EPA 245.1)	Selenium, Total (EPA 200.8)	Silver, Total (EPA 200.8)	Zinc, Total (EPA 200.8)	BTEX (EPA 8260)																																																																														
	Date	Time																																																																																																									
<del>East</del> South	6/26/20	905														5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																																																																											
Relinquished by			Received by			Date			Time			DDW Write On EDT Transmission? <input type="radio"/> Yes <input checked="" type="radio"/> No																																																																																															
						6/25/20			10:32			State System Number: _____ If "Y" please enter the Source Number(s) in the column above																																																																																															
												CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No																																																																																															
												Global ID: _____ EDF to (Email Address): _____ Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____																																																																																															



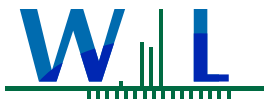
Weck Laboratories

0F26036

Chain of Custody

Pg 1 of 1

Report To			Invoice To				Analysis Request										TAT														
Company: Waste Connections, Inc.			Contact: Chiquita Canyon Landfill														Standard														
Attn: Kelly Kincella			Attn: Maribel Bolanos														10 Days		Rush												
Phone/Fax: 208-691-1977			Address: 29201 Henry Mayo Dr. Castaic, CA 91384														<input checked="" type="radio"/>		Days / Hours		<input type="radio"/>										
Email Address: Kelly.Kincella@WasteConnections.com			Phone/Fax: (661) 257-3655																												
Additionally Report To																															
lkm@swteng.com / 909-567-8052			Sampler Name: <i>Paul Chang</i>				Total Number of Containers per Sample ID										Notes														
aav@swteng.com / 415-717-0910																															
pchang@changenvironmental.com																															
Project Information			Container		Preservative			Matrix																							
Project ID: Chiquita Canyon Landfill - IGP																															
Project Number:																															
Sample Identification		Sample Collection		40ml Vial		Poly		Glass		Sleeve		Other		HCl		HNO3		H2SO4		Other		None		Water		Soil		Other		Field pH:	
		Date		Time																											
<del>East</del>						X		X		X		X		X		X		X		X		X		X		X		X		Field pH:	
South		6/26/20		905		X		X		X		X		X		X		X		X		X		X		X		X		Field pH: 7.96	
Relinquished by <i>[Signature]</i>			Received by <i>[Signature]</i> 4.6°C T-0234				Date 6/25/20		Time 10:32		DDW Write On EDT Transmission? <input type="radio"/> Yes <input checked="" type="radio"/> No																				
											State System Number: _____																				
											If "Y" please enter the Source Number(s) in the column above																				
											CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No																				
											Global ID: _____																				
											EDF to (Email Address): _____																				
											Travel and Site Time: _____																				
											Misc. Supplies: _____																				



WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT

**Work Orders:** 1C19024

**Report Date:** 4/06/2021

**Received Date:** 03/19/2021

**Project:** Chiquita Canyon Landfill - WDR

**Turnaround Time:** Normal

**Phones:** (909) 567-8052

**Attn:** Lauren Murphy

**Fax:**

**P.O. #:**

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Billing Code:**

DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NJ-DEP #CA015

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

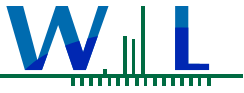
Dear Lauren Murphy,

Enclosed are the results of analyses for samples received 3/19/21 with the Chain-of-Custody document. The samples were received in good condition, at 4.7 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**

Kim G. Tu  
Project Manager





WECK LABORATORIES, INC.

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

# Certificate of Analysis

FINAL REPORT

**Project Number:** Chiquita Canyon Landfill - WDR

**Reported:**

04/06/2021 11:36

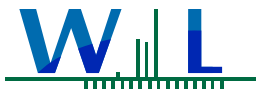
**Project Manager:** Lauren Murphy

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	1C19024-01	Water	03/19/21 09:15	

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>Field in Water</b>			
pH, Field	PH	✓	
<b>SM 9221B/E in Water</b>			
Total Coliform		✓	
Fecal Coliform		✓	
<b>SM 9221F in Water</b>			
E. coli		✓	



WECK LABORATORIES, INC.

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

# Certificate of Analysis

FINAL REPORT

**Project Number:** Chiquita Canyon Landfill - WDR

**Reported:**  
04/06/2021 11:36

**Project Manager:** Lauren Murphy

## Sample Results

Sample: South Sampled: 03/19/21 9:15 by Paul Chang  
1C19024-01 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Anions by IC, EPA Method 300.0

<b>Method:</b> EPA 300.0							
<b>Batch ID:</b> W1C1546	<b>Preparation:</b> _NONE (LC)						<b>Analyst:</b> jan
<b>Chloride, Total</b>	<b>72</b>	0.42	2.5	mg/l	5	03/25/21	

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

<b>Method:</b> EPA 1664B							
<b>Batch ID:</b> W1D0039	<b>Preparation:</b> EPA 1664						<b>Analyst:</b> alv
<b>Oil &amp; Grease (HEM)</b>	<b>1.4</b>	0.7	5.0	mg/l	1	04/02/21	J

<b>Method:</b> EPA 335.4							
<b>Batch ID:</b> W1C1399	<b>Preparation:</b> _NONE (WETCHEM)						<b>Analyst:</b> ism
<b>Cyanide, Total</b>	<b>ND</b>	3.8	5.0	ug/l	1	03/25/21	

<b>Method:</b> EPA 350.1							
<b>Batch ID:</b> W1C1625	<b>Preparation:</b> _NONE (WETCHEM)						<b>Analyst:</b> YMT
<b>Ammonia as N</b>	<b>0.11</b>	0.047	0.10	mg/l	1	03/26/21	

<b>Method:</b> EPA 353.2							
<b>Batch ID:</b> W1C1286	<b>Preparation:</b> _NONE (WETCHEM)						<b>Analyst:</b> ymt
<b>NO2+NO3 as N</b>	<b>600</b>	36	200	ug/l	1	03/19/21	

<b>Method:</b> EPA 410.4							
<b>Batch ID:</b> W1C1722	<b>Preparation:</b> _NONE (WETCHEM)						<b>Analyst:</b> ssi
<b>Chemical Oxygen Demand</b>	<b>69</b>	2.9	5.0	mg/l	1	03/30/21	

<b>Method:</b> SM 2540D							
<b>Batch ID:</b> W1C1491	<b>Preparation:</b> _NONE (WETCHEM)						<b>Analyst:</b> ism
<b>Total Suspended Solids</b>	<b>9</b>		5	mg/l	1	03/24/21	

### Field Determinations

<b>Method:</b> Field							
<b>Batch ID:</b> W1C1270	<b>Preparation:</b> *** DEFAULT PREP ***						<b>Analyst:</b> _clnt
<b>pH, Field</b>	<b>8.18</b>			pH Units	1	03/19/21 09:15	

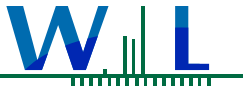
### Metals by EPA 200 Series Methods

<b>Method:</b> EPA 200.7							
<b>Batch ID:</b> W1C1474	<b>Preparation:</b> EPA 200.2						<b>Analyst:</b> kvm
<b>Iron, Total</b>	<b>0.40</b>	0.0050	0.030	mg/l	1	03/26/21	
<b>Magnesium, Total</b>	<b>18.1</b>	0.0390	0.500	mg/l	1	03/26/21	
<b>Phosphorus, Total</b>	<b>0.085</b>	0.018	0.050	mg/l	1	03/26/21	

<b>Method:</b> EPA 200.8							
<b>Batch ID:</b> W1C1476	<b>Preparation:</b> EPA 200.2						<b>Analyst:</b> jdm
<b>Arsenic, Total</b>	<b>4.2</b>	0.074	0.40	ug/l	1	03/27/21	
<b>Cadmium, Total</b>	<b>0.049</b>	0.042	0.20	ug/l	1	03/27/21	J
<b>Lead, Total</b>	<b>0.52</b>	0.083	0.20	ug/l	1	03/27/21	
<b>Selenium, Total</b>	<b>0.93</b>	0.067	0.40	ug/l	1	03/27/21	

1C19024

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WECK LABORATORIES, INC.

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

# Certificate of Analysis

FINAL REPORT

**Project Number:** Chiquita Canyon Landfill - WDR

**Reported:**

04/06/2021 11:36

**Project Manager:** Lauren Murphy

## Sample Results

(Continued)

Sample: South  
1C19024-01 (Water)  
Sampled: 03/19/21 9:15 by Paul Chang  
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Metals by EPA 200 Series Methods (Continued)

Method: EPA 200.8	Instr: ICPMS04	Analyst: jdm					
Batch ID: W1C1476	Preparation: EPA 200.2	Prepared: 03/25/21 13:05					
Silver, Total	0.051	0.030	0.20	ug/l	1	03/27/21	J
Zinc, Total	16	0.80	10	ug/l	1	03/27/21	

Method: EPA 245.1	Instr: HG03	Analyst: asn					
Batch ID: W1C1343	Preparation: EPA 245.1	Prepared: 03/22/21 11:30					
Mercury, Total	ND	0.017	0.050	ug/l	1	03/28/21	

### Microbiological Parameters by Standard Methods

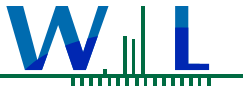
Method: SM 9221B/E	Instr: INC12	Analyst: amc					
Batch ID: W1C1434	Preparation: _NONE (MICROBIOLOGY)	Prepared: 03/19/21 12:50					
Fecal Coliform	1300	18	18	MPN/100ml	10	03/22/21	
Total Coliform	2400	18	18	MPN/100ml	10	03/23/21	

Method: SM 9221F	Instr: INC12	Analyst: amc					
Batch ID: W1C1434	Preparation: _NONE (MICROBIOLOGY)	Prepared: 03/19/21 12:50					
E. coli	1300	18	18	MPN/100ml	10	03/22/21	

### Volatile Organic Compounds by P&T and GC/MS

Method: EPA 8260B	Instr: GCMS18	Analyst: rdt					
Batch ID: W1C1316	Preparation: EPA 5030	Prepared: 03/22/21 07:35					
Benzene	ND	0.30	1.0	ug/l	1	03/22/21	
Ethylbenzene	ND	0.43	1.0	ug/l	1	03/22/21	
m,p-Xylene	ND	0.70	1.0	ug/l	1	03/22/21	
o-Xylene	ND	0.32	1.0	ug/l	1	03/22/21	
Toluene	ND	0.45	1.0	ug/l	1	03/22/21	

Surrogate(s)	Conc:	MDL	MRL	Units	Dil	Analyzed	Qualifier
1,2-Dichloroethane-d4	113%	56.3	86-126			03/22/21	
4-Bromofluorobenzene	84%	42.1	80-112			03/22/21	
Dibromofluoromethane	108%	53.8	89-120			03/22/21	
Toluene-d8	101%	50.7	91-111			03/22/21	



WECK LABORATORIES, INC.

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

# Certificate of Analysis

FINAL REPORT

Project Number: Chiquita Canyon Landfill - WDR

Reported:

04/06/2021 11:36

Project Manager: Lauren Murphy

## Quality Control Results

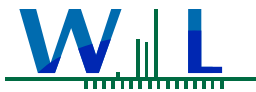
Anions by IC, EPA Method 300.0

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1C1546 - EPA 300.0</b>											
<b>Blank (W1C1546-BLK1)</b>					<b>Prepared: 03/24/21 Analyzed: 03/25/21</b>						
Chloride, Total	ND	0.085	0.50	mg/l							
<b>LCS (W1C1546-BS1)</b>					<b>Prepared: 03/24/21 Analyzed: 03/25/21</b>						
Chloride, Total	18.9	0.085	0.50	mg/l	20.0		94	90-110			
<b>Matrix Spike (W1C1546-MS1)</b>					<b>Prepared: 03/24/21 Analyzed: 03/25/21</b>						
		<b>Source: 1C24057-08</b>									
Chloride, Total	201	0.85	5.0	mg/l	200	12.6	94	76-118			
<b>Matrix Spike Dup (W1C1546-MSD1)</b>					<b>Prepared: 03/24/21 Analyzed: 03/25/21</b>						
		<b>Source: 1C24057-08</b>									
Chloride, Total	201	0.85	5.0	mg/l	200	12.6	94	76-118	0.02	20	

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1C1286 - EPA 353.2</b>											
<b>Blank (W1C1286-BLK1)</b>					<b>Prepared &amp; Analyzed: 03/19/21</b>						
NO2+NO3 as N	ND	36	200	ug/l							
<b>LCS (W1C1286-BS1)</b>					<b>Prepared &amp; Analyzed: 03/19/21</b>						
NO2+NO3 as N	1010	36	200	ug/l	1000		101	90-110			
<b>Matrix Spike (W1C1286-MS1)</b>					<b>Prepared &amp; Analyzed: 03/19/21</b>						
		<b>Source: 1C12008-02</b>									
NO2+NO3 as N	2360	36	200	ug/l	2000	329	102	90-110			
<b>Matrix Spike Dup (W1C1286-MSD1)</b>					<b>Prepared &amp; Analyzed: 03/19/21</b>						
		<b>Source: 1C12008-02</b>									
NO2+NO3 as N	2360	36	200	ug/l	2000	329	102	90-110	0	20	
<b>Batch: W1C1399 - EPA 335.4</b>											
<b>Blank (W1C1399-BLK1)</b>					<b>Prepared: 03/22/21 Analyzed: 03/25/21</b>						
Cyanide, Total	ND	3.8	5.0	ug/l							
<b>LCS (W1C1399-BS1)</b>					<b>Prepared: 03/22/21 Analyzed: 03/25/21</b>						
Cyanide, Total	99.0	3.8	5.0	ug/l	100		99	90-110			
<b>Matrix Spike (W1C1399-MS1)</b>					<b>Prepared: 03/22/21 Analyzed: 03/25/21</b>						
		<b>Source: 1C18031-01</b>									
Cyanide, Total	164	3.8	5.0	ug/l	200	ND	82	90-110			MS-01
<b>Matrix Spike (W1C1399-MS2)</b>					<b>Prepared: 03/22/21 Analyzed: 03/25/21</b>						
		<b>Source: 1C18031-01</b>									
Cyanide, Total	990	19	25	ug/l	1000	ND	99	90-110			
<b>Matrix Spike Dup (W1C1399-MSD1)</b>					<b>Prepared: 03/22/21 Analyzed: 03/25/21</b>						
		<b>Source: 1C18031-01</b>									
Cyanide, Total	175	3.8	5.0	ug/l	200	ND	88	90-110	6	20	MS-01
<b>Matrix Spike Dup (W1C1399-MSD2)</b>					<b>Prepared: 03/22/21 Analyzed: 03/25/21</b>						
		<b>Source: 1C18031-01</b>									
Cyanide, Total	1020	19	25	ug/l	1000	ND	102	90-110	2	20	
<b>Batch: W1C1491 - SM 2540D</b>											
<b>Blank (W1C1491-BLK1)</b>					<b>Prepared: 03/23/21 Analyzed: 03/24/21</b>						
Total Suspended Solids	ND		5	mg/l							
<b>LCS (W1C1491-BS1)</b>					<b>Prepared: 03/23/21 Analyzed: 03/24/21</b>						



WECK LABORATORIES, INC.

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

# Certificate of Analysis

FINAL REPORT

**Project Number:** Chiquita Canyon Landfill - WDR

**Reported:**  
04/06/2021 11:36

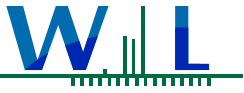
**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1C1491 - SM 2540D (Continued)</b>											
<b>LCS (W1C1491-BS1)</b>											
Total Suspended Solids	62.1		5	mg/l	60.8		102	90-110			
<b>Duplicate (W1C1491-DUP1) Source: 1C04042-01</b>											
Total Suspended Solids	70.0		5	mg/l		68.5			2	20	
<b>Duplicate (W1C1491-DUP2) Source: 1C23016-01</b>											
Total Suspended Solids	60.0		5	mg/l		61.0			2	20	
<b>Batch: W1C1625 - EPA 350.1</b>											
<b>Blank (W1C1625-BLK1)</b>											
Ammonia as N	ND	0.047	0.10	mg/l							
<b>Blank (W1C1625-BLK2)</b>											
Ammonia as N	ND	0.047	0.10	mg/l							
<b>LCS (W1C1625-BS1)</b>											
Ammonia as N	0.238	0.047	0.10	mg/l	0.250		95	90-110			
<b>LCS (W1C1625-BS2)</b>											
Ammonia as N	0.242	0.047	0.10	mg/l	0.250		97	90-110			
<b>Matrix Spike (W1C1625-MS1) Source: 0L03003-01</b>											
Ammonia as N	0.487	0.047	0.10	mg/l	0.250	0.250	95	90-110			
<b>Matrix Spike (W1C1625-MS2) Source: 1C23067-01</b>											
Ammonia as N	0.254	0.047	0.10	mg/l	0.250	ND	101	90-110			
<b>Matrix Spike Dup (W1C1625-MSD1) Source: 0L03003-01</b>											
Ammonia as N	0.488	0.047	0.10	mg/l	0.250	0.250	95	90-110	0.2	15	
<b>Matrix Spike Dup (W1C1625-MSD2) Source: 1C23067-01</b>											
Ammonia as N	0.255	0.047	0.10	mg/l	0.250	ND	102	90-110	0.5	15	
<b>Batch: W1C1722 - EPA 410.4</b>											
<b>Blank (W1C1722-BLK1)</b>											
Chemical Oxygen Demand	ND	2.9	5.0	mg/l							
<b>LCS (W1C1722-BS1)</b>											
Chemical Oxygen Demand	943	2.9	5.0	mg/l	1000		94	90-110			
<b>Duplicate (W1C1722-DUP1) Source: 1C23047-01</b>											
Chemical Oxygen Demand	19100	110	200	mg/l		17600			8	15	
<b>Matrix Spike (W1C1722-MS1) Source: 1C24031-01</b>											
Chemical Oxygen Demand	197	11	20	mg/l	200	ND	98	90-110			
<b>Matrix Spike (W1C1722-MS2) Source: 1C19037-01</b>											
Chemical Oxygen Demand	2600	11	20	mg/l	2000	626	99	90-110			
<b>Matrix Spike Dup (W1C1722-MSD1) Source: 1C24031-01</b>											
Chemical Oxygen Demand	186	11	20	mg/l	200	ND	93	90-110	6	15	
<b>Matrix Spike Dup (W1C1722-MSD2) Source: 1C19037-01</b>											
Chemical Oxygen Demand	2600	11	20	mg/l	2000	626	99	90-110	0	15	



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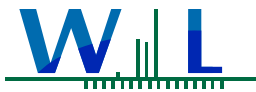
**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1D0039 - EPA 1664B</b>											
<b>Blank (W1D0039-BLK1)</b>											
Oil & Grease (HEM)	ND	0.7	5.0	mg/l							
					<b>Prepared: 04/01/21 Analyzed: 04/02/21</b>						
<b>LCS (W1D0039-BS1)</b>											
Oil & Grease (HEM)	17.1	0.7	5.0	mg/l	20.0		86	78-114			
					<b>Prepared: 04/01/21 Analyzed: 04/02/21</b>						
<b>LCS (W1D0039-BS2)</b>											
Oil & Grease (HEM)	4.50	0.7	5.0	mg/l	5.00		90	78-114			J
					<b>Prepared: 04/01/21 Analyzed: 04/02/21</b>						
<b>LCS Dup (W1D0039-BSD1)</b>											
Oil & Grease (HEM)	16.0	0.7	5.0	mg/l	20.0		80	78-114	7	18	



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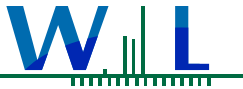
Project Manager: Lauren Murphy

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1C1343 - EPA 245.1</b>											
<b>Blank (W1C1343-BLK1)</b>					<b>Prepared: 03/22/21 Analyzed: 03/28/21</b>						
Mercury, Total	ND	0.017	0.050	ug/l							
<b>LCS (W1C1343-BS1)</b>					<b>Prepared: 03/22/21 Analyzed: 03/28/21</b>						
Mercury, Total	0.862	0.017	0.050	ug/l	1.00		86	85-115			
<b>Matrix Spike (W1C1343-MS1)</b>					<b>Source: 1B16072-01 Prepared: 03/22/21 Analyzed: 03/28/21</b>						
Mercury, Total	0.864	0.017	0.050	ug/l	1.00	ND	86	70-130			
<b>Matrix Spike Dup (W1C1343-MSD1)</b>					<b>Source: 1B16072-01 Prepared: 03/22/21 Analyzed: 03/28/21</b>						
Mercury, Total	0.803	0.017	0.050	ug/l	1.00	ND	80	70-130	7	20	
<b>Batch: W1C1474 - EPA 200.7</b>											
<b>Blank (W1C1474-BLK1)</b>					<b>Prepared: 03/23/21 Analyzed: 03/26/21</b>						
Iron, Total	ND	0.0050	0.030	mg/l							
Magnesium, Total	ND	0.0390	0.500	mg/l							
Phosphorus, Total	ND	0.018	0.050	mg/l							
<b>LCS (W1C1474-BS1)</b>					<b>Prepared: 03/23/21 Analyzed: 03/26/21</b>						
Iron, Total	0.183	0.0050	0.030	mg/l	0.200		92	85-115			
Magnesium, Total	51.9	0.0390	0.500	mg/l	50.2		103	85-115			
Phosphorus, Total	1.91	0.018	0.050	mg/l	2.00		95	85-115			
<b>Matrix Spike (W1C1474-MS1)</b>					<b>Source: 1C19024-01 Prepared: 03/23/21 Analyzed: 03/26/21</b>						
Iron, Total	0.596	0.0050	0.030	mg/l	0.200	0.402	97	70-130			
Magnesium, Total	71.6	0.0390	0.500	mg/l	50.2	18.1	107	70-130			
Phosphorus, Total	2.04	0.018	0.050	mg/l	2.00	0.0853	98	70-130			
<b>Matrix Spike Dup (W1C1474-MSD1)</b>					<b>Source: 1C19024-01 Prepared: 03/23/21 Analyzed: 03/26/21</b>						
Iron, Total	0.598	0.0050	0.030	mg/l	0.200	0.402	98	70-130	0.5	30	
Magnesium, Total	71.5	0.0390	0.500	mg/l	50.2	18.1	106	70-130	0.07	30	
Phosphorus, Total	2.03	0.018	0.050	mg/l	2.00	0.0853	97	70-130	0.4	30	
<b>Batch: W1C1476 - EPA 200.8</b>											
<b>Blank (W1C1476-BLK1)</b>					<b>Prepared: 03/25/21 Analyzed: 03/27/21</b>						
Arsenic, Total	ND	0.074	0.40	ug/l							
Cadmium, Total	ND	0.042	0.20	ug/l							
Lead, Total	ND	0.083	0.20	ug/l							
Selenium, Total	ND	0.067	0.40	ug/l							
Silver, Total	ND	0.030	0.20	ug/l							
Zinc, Total	1.07	0.80	10	ug/l							B-07, J
<b>LCS (W1C1476-BS1)</b>					<b>Prepared: 03/25/21 Analyzed: 03/27/21</b>						
Arsenic, Total	49.4	0.074	0.40	ug/l	50.0		99	85-115			
Cadmium, Total	47.7	0.042	0.20	ug/l	50.0		95	85-115			
Lead, Total	48.1	0.083	0.20	ug/l	50.0		96	85-115			
Selenium, Total	48.8	0.067	0.40	ug/l	50.0		98	85-115			
Silver, Total	47.8	0.030	0.20	ug/l	50.0		96	85-115			



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**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods (Continued)

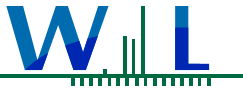
Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1C1476 - EPA 200.8 (Continued)</b>											
<b>LCS (W1C1476-BS1)</b>											
					<b>Prepared: 03/25/21 Analyzed: 03/27/21</b>						
Zinc, Total	49.2	0.80	10	ug/l	50.0		98	85-115			
<b>Matrix Spike (W1C1476-MS1)</b>											
					<b>Source: 1C15076-06</b>						
					<b>Prepared: 03/25/21 Analyzed: 03/27/21</b>						
Arsenic, Total	50.4	0.074	0.40	ug/l	50.0	0.518	100	70-130			
Cadmium, Total	47.6	0.042	0.20	ug/l	50.0	0.112	95	70-130			
Lead, Total	51.2	0.083	0.20	ug/l	50.0	2.53	97	70-130			
Selenium, Total	48.5	0.067	0.40	ug/l	50.0	0.244	97	70-130			
Silver, Total	47.8	0.030	0.20	ug/l	50.0	0.180	95	70-130			
Zinc, Total	113	0.80	10	ug/l	50.0	64.6	97	70-130			
<b>Matrix Spike Dup (W1C1476-MSD1)</b>											
					<b>Source: 1C15076-06</b>						
					<b>Prepared: 03/25/21 Analyzed: 03/27/21</b>						
Arsenic, Total	50.6	0.074	0.40	ug/l	50.0	0.518	100	70-130	0.4	30	
Cadmium, Total	49.1	0.042	0.20	ug/l	50.0	0.112	98	70-130	3	30	
Lead, Total	50.3	0.083	0.20	ug/l	50.0	2.53	96	70-130	2	30	
Selenium, Total	48.8	0.067	0.40	ug/l	50.0	0.244	97	70-130	0.5	30	
Silver, Total	47.2	0.030	0.20	ug/l	50.0	0.180	94	70-130	1	30	
Zinc, Total	114	0.80	10	ug/l	50.0	64.6	100	70-130	1	30	

## Quality Control Results

(Continued)

### Microbiological Parameters by Standard Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1C1434 - SM 9221B/E</b>											
<b>Blank (W1C1434-BLK1)</b>											
					<b>Prepared: 03/16/21 Analyzed: 03/19/21</b>						
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							
<b>Blank (W1C1434-BLK2)</b>											
					<b>Prepared: 03/18/21 Analyzed: 03/21/21</b>						
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							
<b>Blank (W1C1434-BLK3)</b>											
					<b>Prepared: 03/19/21 Analyzed: 03/22/21</b>						
E. coli	ND		1.8	MPN/100ml							
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							



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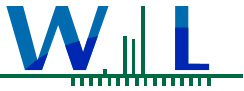
**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1C1316 - EPA 8260B</b>											
<b>Blank (W1C1316-BLK1)</b>					<b>Prepared &amp; Analyzed: 03/22/21</b>						
Benzene	ND	0.30	1.0	ug/l							
Ethylbenzene	ND	0.43	1.0	ug/l							
m,p-Xylene	ND	0.70	1.0	ug/l							
o-Xylene	ND	0.32	1.0	ug/l							
Toluene	ND	0.45	1.0	ug/l							
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	57.5			ug/l	50.0		115	86-126			
4-Bromofluorobenzene	42.4			ug/l	50.0		85	80-112			
Dibromofluoromethane	53.2			ug/l	50.0		106	89-120			
Toluene-d8	49.7			ug/l	50.0		99	91-111			
<b>LCS (W1C1316-BS1)</b>					<b>Prepared &amp; Analyzed: 03/22/21</b>						
Benzene	49.0	0.30	1.0	ug/l	50.0		98	80-117			
Ethylbenzene	52.6	0.43	1.0	ug/l	50.0		105	76-131			
m,p-Xylene	49.4	0.70	1.0	ug/l	50.0		99	80-126			
o-Xylene	49.7	0.32	1.0	ug/l	50.0		99	84-121			
Toluene	49.3	0.45	1.0	ug/l	50.0		99	82-122			
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	48.8			ug/l	50.0		98	86-126			
4-Bromofluorobenzene	51.5			ug/l	50.0		103	80-112			
Dibromofluoromethane	50.1			ug/l	50.0		100	89-120			
Toluene-d8	52.2			ug/l	50.0		104	91-111			
<b>LCS Dup (W1C1316-BSD1)</b>					<b>Prepared &amp; Analyzed: 03/22/21</b>						
Benzene	48.8	0.30	1.0	ug/l	50.0		98	80-117	0.4	25	
Ethylbenzene	52.4	0.43	1.0	ug/l	50.0		105	76-131	0.4	25	
m,p-Xylene	49.3	0.70	1.0	ug/l	50.0		99	80-126	0.3	25	
o-Xylene	49.4	0.32	1.0	ug/l	50.0		99	84-121	0.5	25	
Toluene	49.4	0.45	1.0	ug/l	50.0		99	82-122	0.2	25	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	48.5			ug/l	50.0		97	86-126			
4-Bromofluorobenzene	50.9			ug/l	50.0		102	80-112			
Dibromofluoromethane	50.5			ug/l	50.0		101	89-120			
Toluene-d8	52.4			ug/l	50.0		105	91-111			
<b>Matrix Spike (W1C1316-MS1)</b>					<b>Source: 1C19024-01</b>		<b>Prepared &amp; Analyzed: 03/22/21</b>				
Benzene	50.3	0.30	1.0	ug/l	50.0	ND	101	74-114			
Ethylbenzene	56.0	0.43	1.0	ug/l	50.0	ND	112	75-123			
m,p-Xylene	52.6	0.70	1.0	ug/l	50.0	ND	105	76-124			
o-Xylene	52.1	0.32	1.0	ug/l	50.0	ND	104	76-123			
Toluene	50.6	0.45	1.0	ug/l	50.0	ND	101	79-123			
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	49.2			ug/l	50.0		98	86-126			



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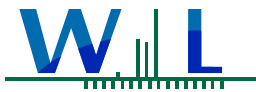
**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1C1316 - EPA 8260B (Continued)</b>											
<b>Matrix Spike (W1C1316-MS1)</b>			<b>Source: 1C19024-01</b>			<b>Prepared &amp; Analyzed: 03/22/21</b>					
<i>Surrogate(s)</i>											
4-Bromofluorobenzene	52.1			ug/l	50.0		104	80-112			
Dibromofluoromethane	52.1			ug/l	50.0		104	89-120			
Toluene-d8	52.2			ug/l	50.0		104	91-111			
<b>Matrix Spike Dup (W1C1316-MSD1)</b>			<b>Source: 1C19024-01</b>			<b>Prepared &amp; Analyzed: 03/22/21</b>					
Benzene	49.5	0.30	1.0	ug/l	50.0	ND	99	74-114	2	25	
Ethylbenzene	54.0	0.43	1.0	ug/l	50.0	ND	108	75-123	4	25	
m,p-Xylene	50.9	0.70	1.0	ug/l	50.0	ND	102	76-124	3	25	
o-Xylene	50.2	0.32	1.0	ug/l	50.0	ND	100	76-123	4	25	
Toluene	50.1	0.45	1.0	ug/l	50.0	ND	100	79-123	0.9	25	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	49.9			ug/l	50.0		100	86-126			
4-Bromofluorobenzene	52.3			ug/l	50.0		105	80-112			
Dibromofluoromethane	50.9			ug/l	50.0		102	89-120			
Toluene-d8	51.8			ug/l	50.0		104	91-111			



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## Notes and Definitions

Item	Definition
B-07	This analyte was found in the method blank at levels above the MDL but below the reporting limit.
J	Estimated conc. detected <MRL and >MDL.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.





Weck Laboratories

1019024  
Chain of Custody

Report To			Invoice To													Analysis Request						TAT	
Company: Waste Connections, Inc.			Contact: Chiquita Canyon Landfill																			Standard	
Attn: Lauren Kahle and Randal Bodnar			Attn: Maribel Bolanos																			Rush	
Phone/Fax: 360-207-3465			Address: 29201 Henry Mayo Dr. Castaic, CA 91384																			10 Days <input checked="" type="radio"/>	
Email Address: Lauren.Kahle@WasteConnections.com Randal.Bodnar@WasteConnections.com			Phone/Fax: (661) 257-3655																			____ Days / Hours <input type="radio"/>	
Additionally Report To lkm@swteng.com / 909-567-8052 aav@swteng.com / 415-717-0910 pchang@changenvironmental.com			Sampler Name: <i>Paul Chang</i>																				
Project Information			Container				Preservative				Matrix					Total Number of Containers per Sample ID						Notes	
Project ID: Chiquita Canyon Landfill - IGP																TSS (SM 2540-D) *						Notes	
Project Number:																O&G (EPA 1664A) *							
Sample Identification	Sample Collection		40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other	Fe (EPA 200.7) *						Field pH:	
	Date	Time														Chloride (EPA 300.0) *							
<del>East</del>			X	X		X	X	X		X	X	X				Coliform Bacteria, Total (EPA 9221.B, C, or E) *						Field pH:	
South	3/19/21	9K	X	X		X	X	X		X	X	X				E coli (SM 9221F) *						Field pH: 8.18	
Relinquished by			Received by										Date	Time	DDW Write On EDT Transmission? <input type="radio"/> Yes <input checked="" type="radio"/> No								
<i>[Signature]</i>			<i>[Signature]</i>										3/14/21	10:58	State System Number: _____ If "Y" please enter the Source Number(s) in the column above								
															CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No								
															Global ID: _____ Sampling Company Log Code: _____ EDF to (Email Address): _____								
													Travel and Site Time:	Mileage:	Misc. Supplies:								

**Work Orders:** 2F10030

**Report Date:** 6/27/2022

**Project:** Chiquita Canyon Landfill - Stormwater

**Received Date:** 06/10/2022

**Turnaround Time:** Normal

**Phones:** (909) 567-8052

**Fax:**

**Attn:** Lauren Murphy

**P.O. #:**

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Billing Code:**

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH #4047 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Lauren Murphy,

Enclosed are the results of analyses for samples received 6/10/22 with the Chain-of-Custody document. The samples were received in good condition, at 2.2 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Kim G. Tu  
Project Manager



SWT Engineering  
 800-C South Rochester Avenue  
 Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
 06/27/2022 16:53

**Project Manager:** Lauren Murphy

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	2F10030-01	Water	06/10/22 09:25	
Trip Blank	Paul Chang	2F10030-02	Water	06/10/22 00:00	

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>Field in Water</b>			
pH, Field	PH	✓	
<b>SM 9221B/E in Water</b>			
Total Coliform		✓	
Fecal Coliform		✓	
<b>SM 9221F in Water</b>			
E. coli		✓	

SWT Engineering  
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Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**

06/27/2022 16:53

**Project Manager:** Lauren Murphy

## Sample Results

Sample: South  
2F10030-01 (Water) Sampled: 06/10/22 9:25 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Anions by IC, EPA Method 300.0</b>							
<b>Method:</b> EPA 300.0			<b>Instr:</b> LC12				
<b>Batch ID:</b> W2F1232	<b>Preparation:</b> _NONE (LC)		<b>Prepared:</b> 06/16/22 09:11			<b>Analyst:</b> jan	
Chloride, Total	120	0.95	2.5	mg/l	5	06/16/22	
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> EPA 1664B			<b>Instr:</b> SPE15				
<b>Batch ID:</b> W2F1005	<b>Preparation:</b> EPA 1664		<b>Prepared:</b> 06/14/22 09:00			<b>Analyst:</b> may	
Oil & Grease (HEM)	1.2	0.7	4.4	mg/l	1	06/16/22	J
<b>Method:</b> EPA 335.4			<b>Instr:</b> AA01				
<b>Batch ID:</b> W2F1363	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/17/22 16:05			<b>Analyst:</b> ISM	
Cyanide, Total	ND	3.8	5.0	ug/l	1	06/18/22	
<b>Method:</b> EPA 350.1			<b>Instr:</b> AA06				
<b>Batch ID:</b> W2F1045	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/14/22 12:37			<b>Analyst:</b> YMT	
Ammonia as N	0.29	0.017	0.10	mg/l	1	06/15/22	
<b>Method:</b> EPA 353.2			<b>Instr:</b> AA01				
<b>Batch ID:</b> W2F0867	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/10/22 14:09			<b>Analyst:</b> ISM	
NO2+NO3 as N	320	36	200	ug/l	1	06/10/22	FILT
<b>Method:</b> EPA 410.4			<b>Instr:</b> UVVIS04				
<b>Batch ID:</b> W2F1242	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/16/22 09:40			<b>Analyst:</b> heq	
Chemical Oxygen Demand	190	2.9	5.0	mg/l	1	06/19/22	
<b>Method:</b> SM 2540D			<b>Instr:</b> OVEN15				
<b>Batch ID:</b> W2F1193	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/15/22 15:17			<b>Analyst:</b> ttf	
Total Suspended Solids	ND	5	5	mg/l	1	06/15/22	
<b>Field Determinations</b>							
<b>Method:</b> Field			<b>Instr:</b> _FIELD				
<b>Batch ID:</b> W2F0930	<b>Preparation:</b> *** DEFAULT PREP ***		<b>Prepared:</b> 06/10/22 09:25			<b>Analyst:</b> _clnt	
pH, Field	8.20			pH Units	1	06/10/22 09:25	
<b>Metals by EPA 200 Series Methods</b>							
<b>Method:</b> EPA 200.7			<b>Instr:</b> ICP03				
<b>Batch ID:</b> W2F1424	<b>Preparation:</b> EPA 200.2		<b>Prepared:</b> 06/20/22 10:48			<b>Analyst:</b> kvm	
Iron, Total	0.36	0.0050	0.030	mg/l	1	06/21/22	
Phosphorus, Total	0.098	0.018	0.050	mg/l	1	06/21/22	
<b>Method:</b> EPA 200.8			<b>Instr:</b> ICPMS06				
<b>Batch ID:</b> W2F1428	<b>Preparation:</b> EPA 200.2		<b>Prepared:</b> 06/20/22 12:35			<b>Analyst:</b> MPN	
Arsenic, Total	9.3	0.074	0.40	ug/l	1	06/21/22	
Cadmium, Total	0.12	0.042	0.20	ug/l	1	06/21/22	J
Lead, Total	0.75	0.083	0.20	ug/l	1	06/21/22	
Magnesium, Total	26	0.16	5.0	mg/l	10	06/21/22	
Selenium, Total	0.78	0.067	0.40	ug/l	1	06/21/22	

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**Project Number:** Chiquita Canyon Landfill - Stormwater

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**Project Manager:** Lauren Murphy

## Sample Results

(Continued)

Sample: South  
2F10030-01 (Water) Sampled: 06/10/22 9:25 by Paul Chang  
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Metals by EPA 200 Series Methods (Continued)

<b>Method:</b> EPA 200.8				<b>Instr:</b> ICPMS06			
<b>Batch ID:</b> W2F1428	<b>Preparation:</b> EPA 200.2			<b>Prepared:</b> 06/20/22 12:35		<b>Analyst:</b> MPN	
Silver, Total	ND	0.13	0.20	ug/l	1	06/21/22	
Zinc, Total	6.6	1.7	10	ug/l	1	06/21/22	J

<b>Method:</b> EPA 245.1				<b>Instr:</b> HG03			
<b>Batch ID:</b> W2F1121	<b>Preparation:</b> EPA 245.1			<b>Prepared:</b> 06/15/22 08:50		<b>Analyst:</b> KVM	
Mercury, Total	ND	0.037	0.050	ug/l	1	06/16/22	

### Microbiological Parameters by Standard Methods

<b>Method:</b> SM 9221B/E				<b>Instr:</b> WB09			
<b>Batch ID:</b> W2F0889	<b>Preparation:</b> _NONE (MICROBIOLOGY)			<b>Prepared:</b> 06/10/22 13:52		<b>Analyst:</b> slh	
Fecal Coliform	20	18	18	MPN/100ml	10	06/13/22	
Total Coliform	1100	18	18	MPN/100ml	10	06/14/22	

<b>Method:</b> SM 9221F				<b>Instr:</b> WB09			
<b>Batch ID:</b> W2F0889	<b>Preparation:</b> _NONE (MICROBIOLOGY)			<b>Prepared:</b> 06/10/22 13:52		<b>Analyst:</b> slh	
E. coli	ND		18	MPN/100ml	10	06/13/22	

### Volatile Organic Compounds by P&T and GC/MS

<b>Method:</b> EPA 8260B				<b>Instr:</b> GCMS21			
<b>Batch ID:</b> W2F1113	<b>Preparation:</b> EPA 5030B			<b>Prepared:</b> 06/15/22 07:44		<b>Analyst:</b> ADM	
Benzene	ND	2.2	10	ug/l	10	06/16/22	M-02
Ethylbenzene	ND	3.5	10	ug/l	10	06/16/22	M-02
m,p-Xylene	ND	7.9	10	ug/l	10	06/16/22	M-02
o-Xylene	ND	5.4	10	ug/l	10	06/16/22	M-02
Toluene	ND	4.7	10	ug/l	10	06/16/22	M-02

<i>Surrogate(s)</i>							
1,2-Dichloroethane-d4	95%	Conc: 47.3	86-126			06/16/22	
4-Bromofluorobenzene	91%	Conc: 45.6	80-112			06/16/22	
Dibromofluoromethane	98%	Conc: 49.2	89-120			06/16/22	
Toluene-d8	98%	Conc: 48.8	91-111			06/16/22	

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**Project Number:** Chiquita Canyon Landfill - Stormwater

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**Project Manager:** Lauren Murphy

(Continued)

## Sample Results

Sample: Trip Blank  
2F10030-02 (Water) Sampled: 06/10/22 0:00 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W2F1113		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 06/15/22 07:44		<b>Analyst:</b> ADM	
Benzene	ND	0.22	1.0	ug/l	1	06/16/22	
Ethylbenzene	ND	0.35	1.0	ug/l	1	06/16/22	
m,p-Xylene	ND	0.79	1.0	ug/l	1	06/16/22	
o-Xylene	ND	0.54	1.0	ug/l	1	06/16/22	
Toluene	ND	0.47	1.0	ug/l	1	06/16/22	
<i>Surrogate(s)</i>							
1,2-Dichloroethane-d4	98%	Conc: 48.9	86-126			06/16/22	
4-Bromofluorobenzene	94%	Conc: 47.0	80-112			06/16/22	
Dibromofluoromethane	105%	Conc: 52.6	89-120			06/16/22	
Toluene-d8	100%	Conc: 49.8	91-111			06/16/22	

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## Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1232 - EPA 300.0</b>											
<b>Blank (W2F1232-BLK1)</b>					<b>Prepared &amp; Analyzed: 06/16/22</b>						
Chloride, Total	ND	0.19	0.50	mg/l							
<b>LCS (W2F1232-BS1)</b>					<b>Prepared &amp; Analyzed: 06/16/22</b>						
Chloride, Total	21.0	0.19	0.50	mg/l	20.0		105	90-110			
<b>Duplicate (W2F1232-DUP1)</b>					<b>Prepared &amp; Analyzed: 06/16/22</b>						
Source: 2F06066-01RE1											
Chloride, Total	149	1.9	5.0	mg/l		149			0.01	20	
<b>Duplicate (W2F1232-DUP2)</b>					<b>Prepared &amp; Analyzed: 06/16/22</b>						
Source: 2F07098-01RE1											
Chloride, Total	153	1.9	5.0	mg/l		153			0.4	20	
<b>Matrix Spike (W2F1232-MS1)</b>					<b>Prepared &amp; Analyzed: 06/16/22</b>						
Source: 2F06066-01RE1											
Chloride, Total	347	1.9	5.0	mg/l	200	149	99	80-118			
<b>Matrix Spike (W2F1232-MS2)</b>					<b>Prepared &amp; Analyzed: 06/16/22</b>						
Source: 2F07098-01RE1											
Chloride, Total	353	1.9	5.0	mg/l	200	153	100	80-118			
<b>Matrix Spike Dup (W2F1232-MSD1)</b>					<b>Prepared &amp; Analyzed: 06/16/22</b>						
Source: 2F06066-01RE1											
Chloride, Total	349	1.9	5.0	mg/l	200	149	100	80-118	0.4	20	
<b>Matrix Spike Dup (W2F1232-MSD2)</b>					<b>Prepared &amp; Analyzed: 06/16/22</b>						
Source: 2F07098-01RE1											
Chloride, Total	353	1.9	5.0	mg/l	200	153	100	80-118	0.06	20	

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F0867 - EPA 353.2</b>											
<b>Blank (W2F0867-BLK1)</b>					<b>Prepared &amp; Analyzed: 06/10/22</b>						
NO2+NO3 as N	ND	36	200	ug/l							
<b>LCS (W2F0867-BS1)</b>					<b>Prepared &amp; Analyzed: 06/10/22</b>						
NO2+NO3 as N	965	36	200	ug/l	1000		96	90-110			
<b>Duplicate (W2F0867-DUP1)</b>					<b>Prepared &amp; Analyzed: 06/10/22</b>						
Source: 2F10064-01											
NO2+NO3 as N	54.3	36	200	ug/l		74.0			31	20	J, R-03
<b>Matrix Spike (W2F0867-MS1)</b>					<b>Prepared &amp; Analyzed: 06/10/22</b>						
Source: 2F09089-05											
NO2+NO3 as N	1990	36	200	ug/l	2000	36.8	98	90-110			
<b>Matrix Spike (W2F0867-MS2)</b>					<b>Prepared &amp; Analyzed: 06/10/22</b>						
Source: 2F09090-01											
NO2+NO3 as N	1930	36	200	ug/l	2000	38.4	95	90-110			
<b>Matrix Spike Dup (W2F0867-MSD1)</b>					<b>Prepared &amp; Analyzed: 06/10/22</b>						
Source: 2F09089-05											
NO2+NO3 as N	1970	36	200	ug/l	2000	36.8	97	90-110	1	20	
<b>Matrix Spike Dup (W2F0867-MSD2)</b>					<b>Prepared &amp; Analyzed: 06/10/22</b>						
Source: 2F09090-01											
NO2+NO3 as N	1950	36	200	ug/l	2000	38.4	96	90-110	1	20	
<b>Batch: W2F1005 - EPA 1664B</b>											
<b>Blank (W2F1005-BLK1)</b>					<b>Prepared: 06/14/22 Analyzed: 06/16/22</b>						
Oil & Grease (HEM)	ND	0.6	4.0	mg/l							

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**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1005 - EPA 1664B (Continued)</b>											
<b>LCS (W2F1005-BS1)</b>											
Oil & Grease (HEM)	16.5	0.6	4.0	mg/l	16.8		98	78-114			
					Prepared: 06/14/22 Analyzed: 06/16/22						
<b>LCS (W2F1005-BS2)</b>											
Oil & Grease (HEM)	3.50	0.6	4.0	mg/l	4.00		88	78-114			J
					Prepared: 06/14/22 Analyzed: 06/16/22						
<b>LCS Dup (W2F1005-BSD1)</b>											
Oil & Grease (HEM)	15.9	0.6	4.0	mg/l	16.8		94	78-114	4	18	
					Prepared: 06/14/22 Analyzed: 06/16/22						
<b>Batch: W2F1045 - EPA 350.1</b>											
<b>Blank (W2F1045-BLK1)</b>											
Ammonia as N	ND	0.017	0.10	mg/l							
					Prepared: 06/14/22 Analyzed: 06/15/22						
<b>LCS (W2F1045-BS1)</b>											
Ammonia as N	0.272	0.017	0.10	mg/l	0.250		109	90-110			
					Prepared: 06/14/22 Analyzed: 06/15/22						
<b>Matrix Spike (W2F1045-MS1)</b>											
Ammonia as N	0.550	0.017	0.10	mg/l	0.250	0.301	100	90-110			
					Prepared: 06/14/22 Analyzed: 06/15/22						
<b>Matrix Spike Dup (W2F1045-MSD1)</b>											
Ammonia as N	0.558	0.017	0.10	mg/l	0.250	0.301	103	90-110	1	15	
					Prepared: 06/14/22 Analyzed: 06/15/22						
<b>Batch: W2F1193 - SM 2540D</b>											
<b>Blank (W2F1193-BLK1)</b>											
Total Suspended Solids	ND	5	5	mg/l							
					Prepared & Analyzed: 06/15/22						
<b>LCS (W2F1193-BS1)</b>											
Total Suspended Solids	64.3	5	5	mg/l	60.0		107	90-110			
					Prepared & Analyzed: 06/15/22						
<b>Duplicate (W2F1193-DUP1)</b>											
Total Suspended Solids	167	5	5	mg/l					3	10	
					Prepared & Analyzed: 06/15/22						
<b>Duplicate (W2F1193-DUP2)</b>											
Total Suspended Solids	1040	5	5	mg/l					6	10	
					Prepared & Analyzed: 06/15/22						
<b>Batch: W2F1242 - EPA 410.4</b>											
<b>Blank (W2F1242-BLK1)</b>											
Chemical Oxygen Demand	ND	2.9	5.0	mg/l							
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>LCS (W2F1242-BS1)</b>											
Chemical Oxygen Demand	1020	2.9	5.0	mg/l	1000		102	90-110			
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>Duplicate (W2F1242-DUP1)</b>											
Chemical Oxygen Demand	12400	58	100	mg/l					5	15	
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>Matrix Spike (W2F1242-MS1)</b>											
Chemical Oxygen Demand	203	12	20	mg/l	200	ND	102	90-110			
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>Matrix Spike (W2F1242-MS2)</b>											
Chemical Oxygen Demand	2510	12	20	mg/l	2000	618	95	90-110			
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>Matrix Spike Dup (W2F1242-MSD1)</b>											
Chemical Oxygen Demand	192	12	20	mg/l	200	ND	96	90-110	5	15	
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>Matrix Spike Dup (W2F1242-MSD2)</b>											
					Prepared: 06/16/22 Analyzed: 06/19/22						

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(Continued)

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1242 - EPA 410.4 (Continued)</b>											
<b>Matrix Spike Dup (W2F1242-MSD2)</b>		<b>Source: 2F14005-01</b>			<b>Prepared: 06/16/22 Analyzed: 06/19/22</b>						
Chemical Oxygen Demand	2560	12	20	mg/l	2000	618	97	90-110	2	15	
<b>Batch: W2F1363 - EPA 335.4</b>											
<b>Blank (W2F1363-BLK1)</b>					<b>Prepared: 06/17/22 Analyzed: 06/18/22</b>						
Cyanide, Total	ND	3.8	4.0	ug/l							
<b>LCS (W2F1363-BS1)</b>					<b>Prepared: 06/17/22 Analyzed: 06/18/22</b>						
Cyanide, Total	95.8	3.8	4.0	ug/l	100		96	90-110			
<b>Matrix Spike (W2F1363-MS1)</b>		<b>Source: 2E23007-01</b>			<b>Prepared: 06/17/22 Analyzed: 06/18/22</b>						
Cyanide, Total	194	3.8	4.0	ug/l	200	ND	97	90-110			
<b>Matrix Spike Dup (W2F1363-MSD1)</b>		<b>Source: 2E23007-01</b>			<b>Prepared: 06/17/22 Analyzed: 06/18/22</b>						
Cyanide, Total	195	3.8	4.0	ug/l	200	ND	98	90-110	0.5	20	

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## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1121 - EPA 245.1</b>											
<b>Blank (W2F1121-BLK1)</b>					<b>Prepared: 06/15/22 Analyzed: 06/16/22</b>						
Mercury, Total	ND	0.037	0.050	ug/l							
<b>LCS (W2F1121-BS1)</b>					<b>Prepared: 06/15/22 Analyzed: 06/16/22</b>						
Mercury, Total	0.966	0.037	0.050	ug/l	1.00		97	85-115			
<b>Matrix Spike (W2F1121-MS1)</b>					<b>Source: 2F08100-01</b>		<b>Prepared: 06/15/22 Analyzed: 06/16/22</b>				
Mercury, Total	0.971	0.037	0.050	ug/l	1.00	ND	97	70-130			
<b>Matrix Spike Dup (W2F1121-MSD1)</b>					<b>Source: 2F08100-01</b>		<b>Prepared: 06/15/22 Analyzed: 06/16/22</b>				
Mercury, Total	0.958	0.037	0.050	ug/l	1.00	ND	96	70-130	1	20	
<b>Batch: W2F1424 - EPA 200.7</b>											
<b>Blank (W2F1424-BLK1)</b>					<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>						
Iron, Total	ND	0.0050	0.030	mg/l							
Phosphorus, Total	ND	0.018	0.050	mg/l							
<b>LCS (W2F1424-BS1)</b>					<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>						
Iron, Total	0.206	0.0050	0.030	mg/l	0.200		103	85-115			
Phosphorus, Total	2.09	0.018	0.050	mg/l	2.00		104	85-115			
<b>Matrix Spike (W2F1424-MS1)</b>					<b>Source: 2F14078-01</b>		<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>				
Iron, Total	10.1	0.0050	0.030	mg/l	0.200	9.26	411	70-130			MS-02
Phosphorus, Total	24.1	0.018	0.050	mg/l	2.00	21.8	118	70-130			
<b>Matrix Spike Dup (W2F1424-MSD1)</b>					<b>Source: 2F14078-01</b>		<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>				
Iron, Total	9.96	0.0050	0.030	mg/l	0.200	9.26	353	70-130	1	30	MS-02
Phosphorus, Total	24.0	0.018	0.050	mg/l	2.00	21.8	109	70-130	0.8	30	
<b>Batch: W2F1428 - EPA 200.8</b>											
<b>Blank (W2F1428-BLK1)</b>					<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>						
Arsenic, Total	ND	0.074	0.40	ug/l							
Cadmium, Total	ND	0.042	0.20	ug/l							
Lead, Total	ND	0.083	0.20	ug/l							
Magnesium, Total	ND	0.016	0.50	mg/l							
Selenium, Total	ND	0.067	0.40	ug/l							
Silver, Total	ND	0.13	0.20	ug/l							
Zinc, Total	ND	1.7	10	ug/l							
<b>LCS (W2F1428-BS1)</b>					<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>						
Arsenic, Total	48.8	0.074	0.40	ug/l	50.0		98	85-115			
Cadmium, Total	49.3	0.042	0.20	ug/l	50.0		99	85-115			
Lead, Total	49.2	0.083	0.20	ug/l	50.0		99	85-115			
Magnesium, Total	1.99	0.016	0.50	mg/l	2.05		97	85-115			
Selenium, Total	48.4	0.067	0.40	ug/l	50.0		97	85-115			
Silver, Total	45.6	0.13	0.20	ug/l	50.0		91	85-115			
Zinc, Total	49.0	1.7	10	ug/l	50.0		98	85-115			
<b>Matrix Spike (W2F1428-MS1)</b>					<b>Source: 2F14012-03</b>		<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>				

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
06/27/2022 16:53

**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1428 - EPA 200.8 (Continued)</b>											
<b>Matrix Spike (W2F1428-MS1)</b>			<b>Source: 2F14012-03</b>			<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>					
Arsenic, Total	50.9	0.074	0.40	ug/l	50.0	2.47	97	70-130			
Cadmium, Total	43.1	0.042	0.20	ug/l	50.0	ND	86	70-130			
Lead, Total	51.6	0.083	0.20	ug/l	50.0	1.63	100	70-130			
Magnesium, Total	1200	0.016	0.50	mg/l	2.05	1260	NR	70-130			MS-02
Selenium, Total	43.8	0.067	0.40	ug/l	50.0	0.190	87	70-130			
Silver, Total	39.3	0.13	0.20	ug/l	50.0	ND	79	70-130			
Zinc, Total	67.9	1.7	10	ug/l	50.0	28.3	79	70-130			
<b>Matrix Spike Dup (W2F1428-MSD1)</b>											
<b>Source: 2F14012-03</b>			<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>								
Arsenic, Total	51.0	0.074	0.40	ug/l	50.0	2.47	97	70-130	0.2	30	
Cadmium, Total	42.7	0.042	0.20	ug/l	50.0	ND	86	70-130	0.9	30	
Lead, Total	51.6	0.083	0.20	ug/l	50.0	1.63	100	70-130	0.1	30	
Magnesium, Total	1200	0.016	0.50	mg/l	2.05	1260	NR	70-130	0.4	30	MS-02
Selenium, Total	44.1	0.067	0.40	ug/l	50.0	0.190	88	70-130	0.6	30	
Silver, Total	39.3	0.13	0.20	ug/l	50.0	ND	79	70-130	0.07	30	
Zinc, Total	67.0	1.7	10	ug/l	50.0	28.3	77	70-130	1	30	

## Quality Control Results

(Continued)

### Microbiological Parameters by Standard Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F0889 - SM 9221F</b>											
<b>Blank (W2F0889-BLK1)</b>			<b>Prepared: 06/10/22 Analyzed: 06/13/22</b>								
E. coli	ND		1.8	MPN/100ml							
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							

SWT Engineering  
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Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
06/27/2022 16:53

**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1113 - EPA 8260B</b>											
<b>Blank (W2F1113-BLK1)</b>					<b>Prepared &amp; Analyzed: 06/15/22</b>						
Benzene	ND	0.22	1.0	ug/l							
Ethylbenzene	ND	0.35	1.0	ug/l							
m,p-Xylene	ND	0.79	1.0	ug/l							
o-Xylene	ND	0.54	1.0	ug/l							
Toluene	ND	0.47	1.0	ug/l							
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	49.4			ug/l	50.0		99	86-126			
4-Bromofluorobenzene	47.1			ug/l	50.0		94	80-112			
Dibromofluoromethane	49.0			ug/l	50.0		98	89-120			
Toluene-d8	48.7			ug/l	50.0		97	91-111			
<b>LCS (W2F1113-BS1)</b>					<b>Prepared &amp; Analyzed: 06/15/22</b>						
Benzene	53.5	0.22	1.0	ug/l	50.0		107	80-117			
Ethylbenzene	51.2	0.35	1.0	ug/l	50.0		102	76-131			
m,p-Xylene	50.5	0.79	1.0	ug/l	50.0		101	80-126			
o-Xylene	47.9	0.54	1.0	ug/l	50.0		96	84-121			
Toluene	54.7	0.47	1.0	ug/l	50.0		109	82-122			
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	50.4			ug/l	50.0		101	86-126			
4-Bromofluorobenzene	49.0			ug/l	50.0		98	80-112			
Dibromofluoromethane	51.4			ug/l	50.0		103	89-120			
Toluene-d8	53.9			ug/l	50.0		108	91-111			
<b>LCS Dup (W2F1113-BSD1)</b>					<b>Prepared &amp; Analyzed: 06/15/22</b>						
Benzene	51.5	0.22	1.0	ug/l	50.0		103	80-117	4	25	
Ethylbenzene	51.5	0.35	1.0	ug/l	50.0		103	76-131	0.5	25	
m,p-Xylene	50.6	0.79	1.0	ug/l	50.0		101	80-126	0.3	25	
o-Xylene	49.6	0.54	1.0	ug/l	50.0		99	84-121	3	25	
Toluene	52.3	0.47	1.0	ug/l	50.0		105	82-122	5	25	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	48.9			ug/l	50.0		98	86-126			
4-Bromofluorobenzene	48.0			ug/l	50.0		96	80-112			
Dibromofluoromethane	50.2			ug/l	50.0		100	89-120			
Toluene-d8	49.8			ug/l	50.0		100	91-111			
<b>Matrix Spike (W2F1113-MS1)</b>					<b>Source: 2F10078-02 Prepared: 06/15/22 Analyzed: 06/16/22</b>						
Benzene	57.2	0.22	1.0	ug/l	50.0	ND	114	74-114			
Ethylbenzene	55.9	0.35	1.0	ug/l	50.0	ND	112	75-123			
m,p-Xylene	54.5	0.79	1.0	ug/l	50.0	ND	109	76-124			
o-Xylene	53.4	0.54	1.0	ug/l	50.0	ND	107	76-123			
Toluene	57.8	0.47	1.0	ug/l	50.0	ND	116	79-123			
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	48.1			ug/l	50.0		96	86-126			

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
06/27/2022 16:53

**Project Manager:** Lauren Murphy

(Continued)

## Quality Control Results

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1113 - EPA 8260B (Continued)</b>											
<b>Matrix Spike (W2F1113-MS1)</b>			<b>Source: 2F10078-02</b>			<b>Prepared: 06/15/22 Analyzed: 06/16/22</b>					
<i>Surrogate(s)</i>											
4-Bromofluorobenzene	47.7			ug/l	50.0		95	80-112			
Dibromofluoromethane	50.6			ug/l	50.0		101	89-120			
Toluene-d8	51.7			ug/l	50.0		103	91-111			
<b>Matrix Spike Dup (W2F1113-MSD1)</b>			<b>Source: 2F10078-02</b>			<b>Prepared: 06/15/22 Analyzed: 06/16/22</b>					
Benzene	57.1	0.22	1.0	ug/l	50.0	ND	114	74-114	0.2	25	
Ethylbenzene	55.4	0.35	1.0	ug/l	50.0	ND	111	75-123	0.8	25	
m,p-Xylene	55.3	0.79	1.0	ug/l	50.0	ND	111	76-124	1	25	
o-Xylene	53.0	0.54	1.0	ug/l	50.0	ND	106	76-123	0.8	25	
Toluene	56.6	0.47	1.0	ug/l	50.0	ND	113	79-123	2	25	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	48.1			ug/l	50.0		96	86-126			
4-Bromofluorobenzene	49.2			ug/l	50.0		98	80-112			
Dibromofluoromethane	50.3			ug/l	50.0		101	89-120			
Toluene-d8	51.0			ug/l	50.0		102	91-111			

SWT Engineering  
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Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
06/27/2022 16:53

**Project Manager:** Lauren Murphy

## Notes and Definitions

Item	Definition
<b>FILT</b>	The sample was filtered prior to analysis.
<b>J</b>	Estimated conc. detected <MRL and >MDL.
<b>M-02</b>	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
<b>MS-02</b>	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
<b>R-03</b>	The RPD is not applicable for result below the reporting limit (either ND or J value).
<b>%REC</b>	Percent Recovery
<b>Dil</b>	Dilution
<b>MDL</b>	Method Detection Limit
<b>MRL</b>	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
<b>ND</b>	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
<b>RPD</b>	Relative Percent Difference
<b>Source</b>	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Weck Laboratories

Chain of Custody

Report To		Invoice To		Analysis Request										TAT																																	
Company: Waste Connections, Inc.		Contact: Chiquita Canyon Landfill		<table border="1"> <tr> <td colspan="2">Standard</td> <td colspan="2">Rush</td> </tr> <tr> <td colspan="2">10 Days</td> <td colspan="2">Days / Hours</td> </tr> <tr> <td colspan="2"><input checked="" type="radio"/></td> <td colspan="2"><input type="radio"/></td> </tr> <tr> <td colspan="4" style="text-align: center;">Parameters for Contaminated Soils WDR R4-2011-0052</td> </tr> <tr> <td colspan="4" style="text-align: center;">Notes</td> </tr> </table>										Standard		Rush		10 Days		Days / Hours		<input checked="" type="radio"/>		<input type="radio"/>		Parameters for Contaminated Soils WDR R4-2011-0052				Notes				<table border="1"> <tr> <td colspan="2">Standard</td> <td colspan="2">Rush</td> </tr> <tr> <td colspan="2">10 Days</td> <td colspan="2">Days / Hours</td> </tr> <tr> <td colspan="2"><input checked="" type="radio"/></td> <td colspan="2"><input type="radio"/></td> </tr> </table>		Standard		Rush		10 Days		Days / Hours		<input checked="" type="radio"/>		<input type="radio"/>	
Standard		Rush																																													
10 Days		Days / Hours																																													
<input checked="" type="radio"/>		<input type="radio"/>																																													
Parameters for Contaminated Soils WDR R4-2011-0052																																															
Notes																																															
Standard		Rush																																													
10 Days		Days / Hours																																													
<input checked="" type="radio"/>		<input type="radio"/>																																													
Attn: Lauren Kahle and Randal Bodnar		Attn: Maribel Bolanos																																													
Phone/Fax: 360-207-3465		Address: 29201 Henry Mayo Dr. Castaic, CA 91384																																													
Email Address: Lauren.Kahle@WasteConnections.com Randal.Bodnar@Waste.Connections.com		Phone/Fax: (661) 257-3655																																													
Additionally Report To																																															
ikm@swteng.com / 909-567-8052		Sampler Name: <i>Paul Chang</i>		Total Number of Containers per Sample ID																																											
aav@swteng.com / 415-717-0910																																															
pchang@changenvironmental.com																																															
Project Information		Container												Preservative		Matrix																															
Project ID: Chiquita Canyon Landfill - WDR																																															
Project Number:																																															
Sample Identification		Sample Collection		40ml Vial		Poly		Glass		Sleeve		Other		HCl		HNO3		H2SO4		Other		None		Water		Soil		Other																			
		Date		Time																																											
<del>East</del>																																															
South		6/10/22		925																																											
Trip Blank		-		-																																											
Relinquished by		Received by		Date		Time		DDW Write On EDT Transmission? <input type="radio"/> Yes <input checked="" type="radio"/> No																																							
<i>[Signature]</i>		<i>[Signature]</i>		6/10/22		1047		State System Number: _____																																							
								If "Y" please enter the Source Number(s) in the column above																																							
								CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No																																							
								Global ID: _____																																							
								EDF to (Email Address): _____																																							
								Sampling Company Log Code: _____																																							
								Travel and Site Time: _____																																							
								Mileage: _____																																							
								Misc. Supplies: _____																																							

2.2.c 10/10/22



**Weck Laboratories**

**Chain of Custody**

Pg 1 of 1 **2F10030**

Report To		Invoice To		Analysis Request										TAT														
Company: Waste Connections, Inc.		Contact: Chiquita Canyon Landfill												Standard	Rush													
Attn: Lauren Kahle and Randal Bodnar		Attn: Maribel Bolanos												10 Days	Days / Hours													
Phone/Fax: 360-207-3485		Address: 29201 Henry Mayo Dr. Castaic, CA 91384												<input checked="" type="radio"/>	<input type="radio"/>													
Email Address: Lauren.Kahle@WasteConnections.com Randal.Bodnar@WasteConnections.com		Phone/Fax: (661) 257-3655																										
Additionally Report To																												
lkm@swteng.com / 909-567-8052		Sampler Name:		Total Number of Containers per Sample ID																								
aav@swteng.com / 415-717-0910		<i>Paul Chang</i>																										
pchang@changenvironmental.com																												
Project Information		Container		Preservative		Matrix																						
Project ID: Chiquita Canyon Landfill - IGP																												
Project Number:																												
Sample Identification		Sample Collection		40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other											Notes	
		Date	Time																									
<del>East</del>					X	X	X	X	X	X	X	X	X	X	X	X											Field pH: _____	
South		6/10/22	925		X	X	X	X	X	X	X	X	X	X	X	X											Field pH: <b>8.20</b>	
Relinquished by		Received by		Date		Time												DDW Write On EDT Transmission? <input type="radio"/> Yes <input checked="" type="radio"/> No										
<i>[Signature]</i>		<i>[Signature]</i>		6/10/22		1047												State System Number: _____										
																		If "Y" please enter the Source Number(s) in the column above										
																		CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No										
																		Global ID: _____ Sampling Company Log Code: _____										
																		EDF to (Email Address): _____										
																		Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____										

*2.2c total*



WECK LABORATORIES, INC.

# Sample Receipt Checklist

Weck WKO: 2F10030  
 WKO Logged by: Jaime Gomez  
 Samples Checked by: Jaime Gomez

Date/Time Received: 06/10/22 @ 10:47  
 # of Samples: 02  
 Delivered by: Paul Chang

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Receipt Information	Sample Temperature		2.2 °C		
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)		Wet		
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Sample Preservation Verification?	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: none, <6mm/<Pea size? 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	pH verified upon receipt?				pH paper Lot# 231619
	Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 525.2<2; 6710B<2; 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Free Chlorine Tested <0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cl Test Strip Lot# 070620
	O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
	pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading: Acid Lot# Amt added:
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

PM Comments

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Sample Receipt Checklist Prepared by:

Signature: Jaime Gomez

Date: 06/10/22

**Work Orders:** 2E19118

**Report Date:** 6/06/2022

**Project:** Chiquita Canyon Landfill - Stormwater

**Received Date:** 05/19/2022

**Turnaround Time:** Normal

**Phones:** (909) 567-8052

**Fax:**

**Attn:** Lauren Murphy

**P.O. #:**

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Billing Code:**

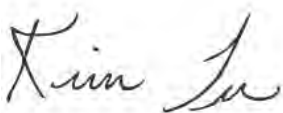
DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH #4047 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Lauren Murphy,

Enclosed are the results of analyses for samples received 5/19/22 with the Chain-of-Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Kim G. Tu  
Project Manager



SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
06/06/2022 17:35

**Project Manager:** Lauren Murphy

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	2E19118-01	Water	05/19/22 10:20	
Trip Blank	Paul Chang	2E19118-02	Water	05/19/22 00:00	

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>Field in Water</b>			
pH, Field	PH	✓	
<b>SM 9221B/E in Water</b>			
Total Coliform		✓	
Fecal Coliform		✓	
<b>SM 9221F in Water</b>			
E. coli		✓	

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## Sample Results

Sample: South  
2E19118-01 (Water) Sampled: 05/19/22 10:20 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Anions by IC, EPA Method 300.0</b>							
<b>Method:</b> EPA 300.0			<b>Instr:</b> LC12				
<b>Batch ID:</b> W2E2005	<b>Preparation:</b> _NONE (LC)		<b>Prepared:</b> 05/27/22 11:06		<b>Analyst:</b> jan		
Chloride, Total	110	0.95	2.5	mg/l	5	05/27/22	
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> EPA 1664B			<b>Instr:</b> SPE15				
<b>Batch ID:</b> W2E1793	<b>Preparation:</b> EPA 1664		<b>Prepared:</b> 05/25/22 09:53		<b>Analyst:</b> may		
Oil & Grease (HEM)	2.8	0.6	4.0	mg/l	1	05/26/22	J
<b>Method:</b> EPA 335.4			<b>Instr:</b> AA01				
<b>Batch ID:</b> W2E1947	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 05/26/22 15:26		<b>Analyst:</b> JOG		
Cyanide, Total	ND	3.8	5.0	ug/l	1	05/28/22	
<b>Method:</b> EPA 350.1			<b>Instr:</b> AA06				
<b>Batch ID:</b> W2E1868	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 05/25/22 16:58		<b>Analyst:</b> YMT		
Ammonia as N	0.51	0.017	0.10	mg/l	1	05/26/22	
<b>Method:</b> EPA 353.2			<b>Instr:</b> AA01				
<b>Batch ID:</b> W2E1460	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 05/19/22 17:33		<b>Analyst:</b> ism		
NO2+NO3 as N	560	36	200	ug/l	1	05/19/22	
<b>Method:</b> EPA 410.4			<b>Instr:</b> UVVIS04				
<b>Batch ID:</b> W2E1602	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 05/23/22 10:53		<b>Analyst:</b> heq		
Chemical Oxygen Demand	140	2.9	5.0	mg/l	1	05/25/22	
<b>Method:</b> SM 2540D			<b>Instr:</b> OVEN15				
<b>Batch ID:</b> W2E1871	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 05/25/22 17:34		<b>Analyst:</b> ttf		
Total Suspended Solids	10	5	5	mg/l	1	05/25/22	
<b>Field Determinations</b>							
<b>Method:</b> Field			<b>Instr:</b> _FIELD				
<b>Batch ID:</b> W2E1446	<b>Preparation:</b> *** DEFAULT PREP ***		<b>Prepared:</b> 05/19/22 10:20		<b>Analyst:</b> _clnt		
pH, Field	8.32			pH Units	1	05/19/22 10:20	
<b>Metals by EPA 200 Series Methods</b>							
<b>Method:</b> EPA 200.7			<b>Instr:</b> ICP03				
<b>Batch ID:</b> W2E1842	<b>Preparation:</b> EPA 200.2		<b>Prepared:</b> 05/25/22 12:31		<b>Analyst:</b> kvm		
Iron, Total	0.48	0.0050	0.030	mg/l	1	05/27/22	
Phosphorus, Total	0.19	0.018	0.050	mg/l	1	05/27/22	
<b>Method:</b> EPA 200.8			<b>Instr:</b> ICPMS06				
<b>Batch ID:</b> W2E1844	<b>Preparation:</b> EPA 200.2		<b>Prepared:</b> 05/25/22 15:42		<b>Analyst:</b> MPN		
Arsenic, Total	9.3	0.074	0.40	ug/l	1	05/27/22	
Cadmium, Total	0.059	0.042	0.20	ug/l	1	05/27/22	J
Lead, Total	1.1	0.083	0.20	ug/l	1	05/27/22	
Magnesium, Total	25	0.16	5.0	mg/l	10	05/27/22	
Selenium, Total	0.82	0.067	0.40	ug/l	1	05/27/22	

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## Sample Results

(Continued)

Sample: South  
2E19118-01 (Water) Sampled: 05/19/22 10:20 by Paul Chang  
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Metals by EPA 200 Series Methods (Continued)

<b>Method:</b> EPA 200.8				<b>Instr:</b> ICPMS06			
<b>Batch ID:</b> W2E1844	<b>Preparation:</b> EPA 200.2			<b>Prepared:</b> 05/25/22 15:42		<b>Analyst:</b> MPN	
Silver, Total	ND	0.13	0.20	ug/l	1	05/27/22	
Zinc, Total	8.7	1.7	10	ug/l	1	05/27/22	J

<b>Method:</b> EPA 245.1				<b>Instr:</b> HG03			
<b>Batch ID:</b> W2E1927	<b>Preparation:</b> EPA 245.1			<b>Prepared:</b> 05/26/22 12:10		<b>Analyst:</b> KVM	
Mercury, Total	ND	0.037	0.050	ug/l	1	05/27/22	

### Microbiological Parameters by Standard Methods

<b>Method:</b> SM 9221B/E				<b>Instr:</b> WB09			
<b>Batch ID:</b> W2E1470	<b>Preparation:</b> _NONE (MICROBIOLOGY)			<b>Prepared:</b> 05/19/22 15:08		<b>Analyst:</b> atd	
Fecal Coliform	ND	18	18	MPN/100ml	10	05/22/22	
Total Coliform	16000	18	18	MPN/100ml	10	05/23/22	

<b>Method:</b> SM 9221F				<b>Instr:</b> WB09			
<b>Batch ID:</b> W2E1470	<b>Preparation:</b> _NONE (MICROBIOLOGY)			<b>Prepared:</b> 05/19/22 15:08		<b>Analyst:</b> atd	
E. coli	ND		18	MPN/100ml	10	05/22/22	

### Volatile Organic Compounds by P&T and GC/MS

<b>Method:</b> EPA 8260B				<b>Instr:</b> GCMS21			
<b>Batch ID:</b> W2E1570	<b>Preparation:</b> EPA 5030B			<b>Prepared:</b> 05/23/22 09:32		<b>Analyst:</b> ADM	
Benzene	ND	1.1	5.0	ug/l	5	05/23/22	M-05
Ethylbenzene	ND	1.7	5.0	ug/l	5	05/23/22	M-05
m,p-Xylene	ND	3.9	5.0	ug/l	5	05/23/22	M-05
o-Xylene	ND	2.7	5.0	ug/l	5	05/23/22	M-05
Toluene	ND	2.4	5.0	ug/l	5	05/23/22	M-05

#### Surrogate(s)

1,2-Dichloroethane-d4	104%	Conc: 51.8	86-126	05/23/22
4-Bromofluorobenzene	99%	Conc: 49.3	80-112	05/23/22
Dibromofluoromethane	103%	Conc: 51.6	89-120	05/23/22
Toluene-d8	99%	Conc: 49.4	91-111	05/23/22

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**Project Manager:** Lauren Murphy

(Continued)

## Sample Results

Sample: Trip Blank  
2E19118-02 (Water) Sampled: 05/19/22 0:00 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W2E1570		<b>Preparation:</b> EPA 5030B			<b>Prepared:</b> 05/23/22 09:32		<b>Analyst:</b> ADM
Benzene	ND	0.22	1.0	ug/l	1	05/23/22	
Ethylbenzene	ND	0.35	1.0	ug/l	1	05/23/22	
m,p-Xylene	ND	0.79	1.0	ug/l	1	05/23/22	
o-Xylene	ND	0.54	1.0	ug/l	1	05/23/22	
Toluene	ND	0.47	1.0	ug/l	1	05/23/22	
<i>Surrogate(s)</i>							
1,2-Dichloroethane-d4	101%	Conc: 50.6	86-126			05/23/22	
4-Bromofluorobenzene	96%	Conc: 47.9	80-112			05/23/22	
Dibromofluoromethane	102%	Conc: 50.9	89-120			05/23/22	
Toluene-d8	97%	Conc: 48.6	91-111			05/23/22	

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## Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2E2005 - EPA 300.0</b>											
<b>Blank (W2E2005-BLK1)</b>					<b>Prepared &amp; Analyzed: 05/27/22</b>						
Chloride, Total	ND	0.19	0.50	mg/l							
<b>LCS (W2E2005-BS1)</b>					<b>Prepared &amp; Analyzed: 05/27/22</b>						
Chloride, Total	20.6	0.19	0.50	mg/l	20.0		103	90-110			
<b>Matrix Spike (W2E2005-MS1)</b>					<b>Prepared &amp; Analyzed: 05/27/22</b>						
Chloride, Total	208	1.9	5.0	mg/l	200	3.70	102	76-118			
<b>Matrix Spike (W2E2005-MS2)</b>					<b>Prepared &amp; Analyzed: 05/27/22</b>						
Chloride, Total	222	1.9	5.0	mg/l	200	21.1	100	76-118			
<b>Matrix Spike Dup (W2E2005-MSD1)</b>					<b>Prepared &amp; Analyzed: 05/27/22</b>						
Chloride, Total	208	1.9	5.0	mg/l	200	3.70	102	76-118	0.1	20	
<b>Matrix Spike Dup (W2E2005-MSD2)</b>					<b>Prepared &amp; Analyzed: 05/27/22</b>						
Chloride, Total	222	1.9	5.0	mg/l	200	21.1	101	76-118	0.2	20	

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2E1460 - EPA 353.2</b>											
<b>Blank (W2E1460-BLK1)</b>					<b>Prepared &amp; Analyzed: 05/19/22</b>						
NO2+NO3 as N	ND	36	200	ug/l							
<b>LCS (W2E1460-BS1)</b>					<b>Prepared &amp; Analyzed: 05/19/22</b>						
NO2+NO3 as N	970	36	200	ug/l	1000		97	90-110			
<b>Matrix Spike (W2E1460-MS1)</b>					<b>Prepared &amp; Analyzed: 05/19/22</b>						
NO2+NO3 as N	6350	36	200	ug/l	2000	4470	94	90-110			
<b>Matrix Spike (W2E1460-MS2)</b>					<b>Prepared &amp; Analyzed: 05/19/22</b>						
NO2+NO3 as N	2310	36	200	ug/l	2000	386	96	90-110			
<b>Matrix Spike Dup (W2E1460-MSD1)</b>					<b>Prepared &amp; Analyzed: 05/19/22</b>						
NO2+NO3 as N	6310	36	200	ug/l	2000	4470	92	90-110	0.6	20	
<b>Matrix Spike Dup (W2E1460-MSD2)</b>					<b>Prepared &amp; Analyzed: 05/19/22</b>						
NO2+NO3 as N	2300	36	200	ug/l	2000	386	96	90-110	0.4	20	
<b>Batch: W2E1602 - EPA 410.4</b>											
<b>Blank (W2E1602-BLK1)</b>					<b>Prepared: 05/23/22 Analyzed: 05/25/22</b>						
Chemical Oxygen Demand	ND	2.9	5.0	mg/l							
<b>LCS (W2E1602-BS1)</b>					<b>Prepared: 05/23/22 Analyzed: 05/25/22</b>						
Chemical Oxygen Demand	996	2.9	5.0	mg/l	1000		100	90-110			
<b>Duplicate (W2E1602-DUP1)</b>					<b>Prepared: 05/23/22 Analyzed: 05/25/22</b>						
Chemical Oxygen Demand	11900	58	100	mg/l		11800			0.3	15	
<b>Matrix Spike (W2E1602-MS1)</b>					<b>Prepared: 05/23/22 Analyzed: 05/25/22</b>						
Chemical Oxygen Demand	205	12	20	mg/l	200	ND	102	90-110			

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## Quality Control Results

(Continued)

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2E1602 - EPA 410.4 (Continued)</b>											
<b>Matrix Spike (W2E1602-MS2)</b>	<b>Source: 2E20020-01</b>				<b>Prepared: 05/23/22 Analyzed: 05/25/22</b>						
Chemical Oxygen Demand	2790	12	20	mg/l	2000	736	103	90-110			
<b>Matrix Spike Dup (W2E1602-MSD1)</b>	<b>Source: 2E19014-01</b>				<b>Prepared: 05/23/22 Analyzed: 05/25/22</b>						
Chemical Oxygen Demand	205	12	20	mg/l	200	ND	102	90-110	0	15	
<b>Matrix Spike Dup (W2E1602-MSD2)</b>	<b>Source: 2E20020-01</b>				<b>Prepared: 05/23/22 Analyzed: 05/25/22</b>						
Chemical Oxygen Demand	2790	12	20	mg/l	2000	736	103	90-110	0	15	
<b>Batch: W2E1793 - EPA 1664B</b>											
<b>Blank (W2E1793-BLK1)</b>					<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Oil & Grease (HEM)	ND	0.6	4.0	mg/l							
<b>LCS (W2E1793-BS1)</b>					<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Oil & Grease (HEM)	16.3	0.6	4.0	mg/l	16.8		97	78-114			
<b>LCS (W2E1793-BS2)</b>					<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Oil & Grease (HEM)	3.50	0.6	4.0	mg/l	4.00		88	78-114			J
<b>LCS Dup (W2E1793-BSD1)</b>					<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Oil & Grease (HEM)	15.9	0.6	4.0	mg/l	16.8		94	78-114	2	18	
<b>Batch: W2E1868 - EPA 350.1</b>											
<b>Blank (W2E1868-BLK1)</b>					<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Ammonia as N	ND	0.017	0.10	mg/l							
<b>Blank (W2E1868-BLK2)</b>					<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Ammonia as N	ND	0.017	0.10	mg/l							
<b>LCS (W2E1868-BS1)</b>					<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Ammonia as N	0.245	0.017	0.10	mg/l	0.250		98	90-110			
<b>LCS (W2E1868-BS2)</b>					<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Ammonia as N	0.249	0.017	0.10	mg/l	0.250		99	90-110			
<b>Duplicate (W2E1868-DUP1)</b>	<b>Source: 2E19083-01</b>				<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Ammonia as N	ND	0.017	0.10	mg/l		ND				15	
<b>Matrix Spike (W2E1868-MS1)</b>	<b>Source: 2E12003-01</b>				<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Ammonia as N	0.497	0.017	0.10	mg/l	0.250	0.245	101	90-110			
<b>Matrix Spike (W2E1868-MS2)</b>	<b>Source: 2E18026-06</b>				<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Ammonia as N	0.250	0.017	0.10	mg/l	0.250	ND	100	90-110			
<b>Matrix Spike Dup (W2E1868-MSD1)</b>	<b>Source: 2E12003-01</b>				<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Ammonia as N	0.499	0.017	0.10	mg/l	0.250	0.245	102	90-110	0.4	15	
<b>Matrix Spike Dup (W2E1868-MSD2)</b>	<b>Source: 2E18026-06</b>				<b>Prepared: 05/25/22 Analyzed: 05/26/22</b>						
Ammonia as N	0.252	0.017	0.10	mg/l	0.250	ND	101	90-110	0.7	15	
<b>Batch: W2E1871 - SM 2540D</b>											
<b>Blank (W2E1871-BLK1)</b>					<b>Prepared &amp; Analyzed: 05/25/22</b>						
Total Suspended Solids	ND	5	5	mg/l							
<b>LCS (W2E1871-BS1)</b>					<b>Prepared &amp; Analyzed: 05/25/22</b>						

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(Continued)

## Quality Control Results

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2E1871 - SM 2540D (Continued)</b>											
<b>LCS (W2E1871-BS1)</b>											
Total Suspended Solids	54.3	5	5	mg/l	51.1		106	90-110			
<b>Duplicate (W2E1871-DUP1) Source: 2E19096-01 Prepared &amp; Analyzed: 05/25/22</b>											
Total Suspended Solids	10.8	5	5	mg/l		10.5			3	10	
<b>Duplicate (W2E1871-DUP2) Source: 2E20074-01 Prepared &amp; Analyzed: 05/25/22</b>											
Total Suspended Solids	8920	5	5	mg/l		9070			2	10	
<b>Batch: W2E1947 - EPA 335.4</b>											
<b>Blank (W2E1947-BLK1) Prepared: 05/26/22 Analyzed: 05/28/22</b>											
Cyanide, Total	ND	3.8	5.0	ug/l							
<b>LCS (W2E1947-BS1) Prepared: 05/26/22 Analyzed: 05/28/22</b>											
Cyanide, Total	105	3.8	5.0	ug/l	100		105	90-110			
<b>Matrix Spike (W2E1947-MS1) Source: 2E19119-03 Prepared: 05/26/22 Analyzed: 05/28/22</b>											
Cyanide, Total	185	3.8	5.0	ug/l	200	ND	92	90-110			
<b>Matrix Spike Dup (W2E1947-MSD1) Source: 2E19119-03 Prepared: 05/26/22 Analyzed: 05/28/22</b>											
Cyanide, Total	190	3.8	5.0	ug/l	200	ND	95	90-110	3	20	

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## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2E1842 - EPA 200.7</b>											
<b>Blank (W2E1842-BLK1)</b>					<b>Prepared: 05/25/22 Analyzed: 05/27/22</b>						
Iron, Total	ND	0.0050	0.030	mg/l							
Phosphorus, Total	ND	0.018	0.050	mg/l							
<b>LCS (W2E1842-BS1)</b>					<b>Prepared: 05/25/22 Analyzed: 05/27/22</b>						
Iron, Total	0.203	0.0050	0.030	mg/l	0.200	ND	101	85-115			
Phosphorus, Total	2.07	0.018	0.050	mg/l	2.00	ND	104	85-115			
<b>Matrix Spike (W2E1842-MS1)</b>					<b>Source: 2E06059-01 Prepared: 05/25/22 Analyzed: 05/27/22</b>						
Iron, Total	0.203	0.0050	0.030	mg/l	0.200	ND	102	70-130			
Phosphorus, Total	2.09	0.018	0.050	mg/l	2.00	ND	105	70-130			
<b>Matrix Spike (W2E1842-MS2)</b>					<b>Source: 2E06059-02 Prepared: 05/25/22 Analyzed: 05/27/22</b>						
Iron, Total	0.205	0.0050	0.030	mg/l	0.200	ND	102	70-130			
Phosphorus, Total	2.06	0.018	0.050	mg/l	2.00	ND	103	70-130			
<b>Matrix Spike Dup (W2E1842-MSD1)</b>					<b>Source: 2E06059-01 Prepared: 05/25/22 Analyzed: 05/27/22</b>						
Iron, Total	0.204	0.0050	0.030	mg/l	0.200	ND	102	70-130	0.4	30	
Phosphorus, Total	2.10	0.018	0.050	mg/l	2.00	ND	105	70-130	0.4	30	
<b>Matrix Spike Dup (W2E1842-MSD2)</b>					<b>Source: 2E06059-02 Prepared: 05/25/22 Analyzed: 05/27/22</b>						
Iron, Total	0.205	0.0050	0.030	mg/l	0.200	ND	103	70-130	0.3	30	
Phosphorus, Total	2.06	0.018	0.050	mg/l	2.00	ND	103	70-130	0.2	30	
<b>Batch: W2E1844 - EPA 200.8</b>											
<b>Blank (W2E1844-BLK1)</b>					<b>Prepared: 05/25/22 Analyzed: 05/27/22</b>						
Arsenic, Total	ND	0.074	0.40	ug/l							
Cadmium, Total	ND	0.042	0.20	ug/l							
Lead, Total	ND	0.083	0.20	ug/l							
Magnesium, Total	ND	0.016	0.50	mg/l							
Selenium, Total	ND	0.067	0.40	ug/l							
Silver, Total	ND	0.13	0.20	ug/l							
Zinc, Total	ND	1.7	10	ug/l							
<b>LCS (W2E1844-BS1)</b>					<b>Prepared: 05/25/22 Analyzed: 05/27/22</b>						
Arsenic, Total	50.2	0.074	0.40	ug/l	50.0	ND	100	85-115			
Cadmium, Total	49.9	0.042	0.20	ug/l	50.0	ND	100	85-115			
Lead, Total	49.6	0.083	0.20	ug/l	50.0	ND	99	85-115			
Magnesium, Total	2.15	0.016	0.50	mg/l	2.05	ND	105	85-115			
Selenium, Total	49.4	0.067	0.40	ug/l	50.0	ND	99	85-115			
Silver, Total	49.7	0.13	0.20	ug/l	50.0	ND	99	85-115			
Zinc, Total	48.1	1.7	10	ug/l	50.0	ND	96	85-115			
<b>Matrix Spike (W2E1844-MS1)</b>					<b>Source: 2E06059-03 Prepared: 05/25/22 Analyzed: 05/27/22</b>						
Arsenic, Total	53.0	0.074	0.40	ug/l	50.0	2.24	101	70-130			
Cadmium, Total	49.2	0.042	0.20	ug/l	50.0	ND	98	70-130			
Lead, Total	49.7	0.083	0.20	ug/l	50.0	ND	99	70-130			

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
06/06/2022 17:35

**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2E1844 - EPA 200.8 (Continued)</b>											
<b>Matrix Spike (W2E1844-MS1)</b>			<b>Source: 2E06059-03</b>			<b>Prepared: 05/25/22 Analyzed: 05/27/22</b>					
Magnesium, Total	12.8	0.016	0.50	mg/l	2.05	10.5	111	70-130			
Selenium, Total	48.7	0.067	0.40	ug/l	50.0	0.629	96	70-130			
Silver, Total	48.5	0.13	0.20	ug/l	50.0	ND	97	70-130			
Zinc, Total	49.0	1.7	10	ug/l	50.0	ND	98	70-130			
<b>Matrix Spike (W2E1844-MS2)</b>			<b>Source: 2E06059-04</b>			<b>Prepared: 05/25/22 Analyzed: 05/27/22</b>					
Arsenic, Total	50.9	0.074	0.40	ug/l	50.0	1.82	98	70-130			
Cadmium, Total	48.4	0.042	0.20	ug/l	50.0	ND	97	70-130			
Lead, Total	49.2	0.083	0.20	ug/l	50.0	ND	98	70-130			
Magnesium, Total	14.4	0.016	0.50	mg/l	2.05	12.6	87	70-130			
Selenium, Total	48.1	0.067	0.40	ug/l	50.0	0.601	95	70-130			
Silver, Total	48.2	0.13	0.20	ug/l	50.0	ND	96	70-130			
Zinc, Total	48.5	1.7	10	ug/l	50.0	2.59	92	70-130			
<b>Matrix Spike Dup (W2E1844-MSD1)</b>			<b>Source: 2E06059-03</b>			<b>Prepared: 05/25/22 Analyzed: 05/27/22</b>					
Arsenic, Total	52.4	0.074	0.40	ug/l	50.0	2.24	100	70-130	1	30	
Cadmium, Total	48.4	0.042	0.20	ug/l	50.0	ND	97	70-130	2	30	
Lead, Total	49.1	0.083	0.20	ug/l	50.0	ND	98	70-130	1	30	
Magnesium, Total	13.0	0.016	0.50	mg/l	2.05	10.5	118	70-130	1	30	
Selenium, Total	53.9	0.067	0.40	ug/l	50.0	0.629	107	70-130	10	30	
Silver, Total	48.2	0.13	0.20	ug/l	50.0	ND	96	70-130	0.6	30	
Zinc, Total	47.4	1.7	10	ug/l	50.0	ND	95	70-130	3	30	
<b>Matrix Spike Dup (W2E1844-MSD2)</b>			<b>Source: 2E06059-04</b>			<b>Prepared: 05/25/22 Analyzed: 05/27/22</b>					
Arsenic, Total	52.1	0.074	0.40	ug/l	50.0	1.82	101	70-130	3	30	
Cadmium, Total	48.7	0.042	0.20	ug/l	50.0	ND	97	70-130	0.7	30	
Lead, Total	49.1	0.083	0.20	ug/l	50.0	ND	98	70-130	0.4	30	
Magnesium, Total	14.6	0.016	0.50	mg/l	2.05	12.6	95	70-130	1	30	
Selenium, Total	48.0	0.067	0.40	ug/l	50.0	0.601	95	70-130	0.2	30	
Silver, Total	48.6	0.13	0.20	ug/l	50.0	ND	97	70-130	0.8	30	
Zinc, Total	49.9	1.7	10	ug/l	50.0	2.59	95	70-130	3	30	
<b>Batch: W2E1927 - EPA 245.1</b>											
<b>Blank (W2E1927-BLK1)</b>						<b>Prepared: 05/26/22 Analyzed: 05/27/22</b>					
Mercury, Total	ND	0.037	0.050	ug/l							
<b>LCS (W2E1927-BS1)</b>						<b>Prepared: 05/26/22 Analyzed: 05/27/22</b>					
Mercury, Total	0.923	0.037	0.050	ug/l	1.00		92	85-115			
<b>Matrix Spike (W2E1927-MS1)</b>			<b>Source: 2E16012-05</b>			<b>Prepared: 05/26/22 Analyzed: 05/27/22</b>					
Mercury, Total	0.964	0.037	0.050	ug/l	1.00	ND	96	70-130			
<b>Matrix Spike (W2E1927-MS2)</b>			<b>Source: 2E17113-01</b>			<b>Prepared: 05/26/22 Analyzed: 05/27/22</b>					
Mercury, Total	0.951	0.037	0.050	ug/l	1.00	ND	95	70-130			
<b>Matrix Spike Dup (W2E1927-MSD1)</b>			<b>Source: 2E16012-05</b>			<b>Prepared: 05/26/22 Analyzed: 05/27/22</b>					

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
06/06/2022 17:35

**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2E1927 - EPA 245.1 (Continued)</b>											
<b>Matrix Spike Dup (W2E1927-MSD1)</b>		<b>Source: 2E16012-05</b>			<b>Prepared: 05/26/22 Analyzed: 05/27/22</b>						
Mercury, Total	0.919	0.037	0.050	ug/l	1.00	ND	92	70-130	5	20	
<b>Matrix Spike Dup (W2E1927-MSD2)</b>		<b>Source: 2E17113-01</b>			<b>Prepared: 05/26/22 Analyzed: 05/27/22</b>						
Mercury, Total	0.937	0.037	0.050	ug/l	1.00	ND	94	70-130	1	20	

## Quality Control Results

(Continued)

### Microbiological Parameters by Standard Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2E1470 - SM 9221F</b>											
<b>Blank (W2E1470-BLK1)</b>		<b>Prepared: 05/19/22 Analyzed: 05/22/22</b>									
E. coli	ND		1.8	MPN/100ml							
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							

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Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

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06/06/2022 17:35

**Project Manager:** Lauren Murphy

(Continued)

## Quality Control Results

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2E1570 - EPA 8260B</b>											
<b>Blank (W2E1570-BLK1)</b>						<b>Prepared &amp; Analyzed: 05/23/22</b>					
Benzene	ND	0.22	1.0	ug/l							
Ethylbenzene	ND	0.35	1.0	ug/l							
m,p-Xylene	ND	0.79	1.0	ug/l							
o-Xylene	ND	0.54	1.0	ug/l							
Toluene	ND	0.47	1.0	ug/l							
Total BTEX	ND		5.0	ug/l							
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	52.0			ug/l	50.0		104	86-126			
4-Bromofluorobenzene	49.2			ug/l	50.0		98	80-112			
Dibromofluoromethane	50.7			ug/l	50.0		101	89-120			
Toluene-d8	49.2			ug/l	50.0		98	91-111			
<b>LCS (W2E1570-BS1)</b>						<b>Prepared &amp; Analyzed: 05/23/22</b>					
Benzene	51.8	0.22	1.0	ug/l	50.0		104	80-117			
Ethylbenzene	56.2	0.35	1.0	ug/l	50.0		112	76-131			
m,p-Xylene	51.2	0.79	1.0	ug/l	50.0		102	80-126			
o-Xylene	50.4	0.54	1.0	ug/l	50.0		101	84-121			
Toluene	55.3	0.47	1.0	ug/l	50.0		111	82-122			
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	50.3			ug/l	50.0		101	86-126			
4-Bromofluorobenzene	50.2			ug/l	50.0		100	80-112			
Dibromofluoromethane	50.2			ug/l	50.0		100	89-120			
Toluene-d8	52.9			ug/l	50.0		106	91-111			
<b>LCS Dup (W2E1570-BSD1)</b>						<b>Prepared &amp; Analyzed: 05/23/22</b>					
Benzene	52.5	0.22	1.0	ug/l	50.0		105	80-117	1	25	
Ethylbenzene	56.8	0.35	1.0	ug/l	50.0		114	76-131	1	25	
m,p-Xylene	52.6	0.79	1.0	ug/l	50.0		105	80-126	3	25	
o-Xylene	52.0	0.54	1.0	ug/l	50.0		104	84-121	3	25	
Toluene	54.3	0.47	1.0	ug/l	50.0		109	82-122	2	25	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	51.2			ug/l	50.0		102	86-126			
4-Bromofluorobenzene	49.7			ug/l	50.0		99	80-112			
Dibromofluoromethane	50.1			ug/l	50.0		100	89-120			
Toluene-d8	50.4			ug/l	50.0		101	91-111			

SWT Engineering  
 800-C South Rochester Avenue  
 Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
 06/06/2022 17:35

**Project Manager:** Lauren Murphy

## Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



**Weck Laboratories**

Report To			Invoice To										Analysis Request														TAT																																																																	
Company: Waste Connections, Inc.			Contact: Chiquita Canyon Landfill										<table border="1"> <tr> <td colspan="14">Standard</td> <td colspan="2">Rush</td> </tr> <tr> <td colspan="14">10 Days</td> <td colspan="2">___ Days / Hours</td> </tr> <tr> <td colspan="14" style="text-align: center;">●</td> <td colspan="2" style="text-align: center;">○</td> </tr> <tr> <td colspan="16" style="text-align: center;">Parameters for Contaminated Soils WDR R4-2011-0052</td> </tr> </table>														Standard														Rush		10 Days														___ Days / Hours		●														○		Parameters for Contaminated Soils WDR R4-2011-0052																	
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Attn: Lauren Kahle and Randal Bodnar			Attn: Maribel Bolanos																																																																																									
Phone/Fax: 360-207-3465			Address: 29201 Henry Mayo Dr. Castaic, CA 91384																																																																																									
Email Address: Lauren.Kahle@WasteConnections.com Randal.Bodnar@Waste.Connections.com			Phone/Fax: (661) 257-3655																																																																																									
Additionally Report To																																																																																												
lkm@swteng.com / 909-567-8052			Sampler Name: <i>Paul Chang</i>																																																																																									
aav@swteng.com / 415-717-0910																																																																																												
pchang@changenvironmental.com																																																																																												
Project Information			Container			Preservative			Matrix				Total Number of Containers per Sample ID																																																																															
Project ID: Chiquita Canyon Landfill - WDR																																																																																												
Project Number:																																																																																												
Sample Identification		Sample Collection		40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other	Ammonia (SM 4500)	COD (SM 5220 C)	Cyanide, Total (SM 4500 CN C, D, or E)	Nitrate + Nitrite Nitrogen (SM 4500-ND3-E)	Phosphorous, Total (SM 4500-P B+E)	Arsenic, Total (EPA 200.8)	Cadmium, Total (EPA 200.8)	Lead, Total (EPA 200.8)	Magnesium, Total (EPA 200.7)	Mercury, Total (EPA 245.1)	Selenium, Total (EPA 200.8)	Silver, Total (EPA 200.8)	Zinc, Total (EPA 200.8)	BTEX (EPA 8260)	Notes																																																													
East																	X	X	X	X	X	X	X	X	X	X	X	X	X	X																																																														
South		5/19/22	1020														X	X	X	X	X	X	X	X	X	X	X	X	X	X																																																														
Relinquished by			Received by			Date		Time		DDW Write On EDT Transmission? <input type="radio"/> Yes <input checked="" type="radio"/> No																																																																																		
<i>[Signature]</i>			<i>Hocter Sarah</i>			5/19/22		1045		State System Number: _____																																																																																		
<i>[Signature]</i>			<i>Hocter Sarah</i>			5-19-22		12:35		If "Y" please enter the Source Number(s) in the column above																																																																																		
<i>[Signature]</i>			<i>[Signature]</i>			5/19/22		12:35		CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No																																																																																		
			2.8 7-0262			5-19-22		12:35		Global ID: _____														Sampling Company Log Code: _____																																																																				
										EDF to (Email Address): _____																																																																																		
										Travel and Site Time: _____														Mileage: _____		Misc. Supplies: _____																																																																		



**Work Orders:** 2F10030

**Report Date:** 6/27/2022

**Project:** Chiquita Canyon Landfill - Stormwater

**Received Date:** 06/10/2022

**Turnaround Time:** Normal

**Phones:** (909) 567-8052

**Fax:**

**P.O. #:**

**Billing Code:**

**Attn:** Lauren Murphy

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH #4047 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Lauren Murphy,

Enclosed are the results of analyses for samples received 6/10/22 with the Chain-of-Custody document. The samples were received in good condition, at 2.2 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Kim G. Tu  
Project Manager



SWT Engineering  
 800-C South Rochester Avenue  
 Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
 06/27/2022 16:53

**Project Manager:** Lauren Murphy

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	2F10030-01	Water	06/10/22 09:25	
Trip Blank	Paul Chang	2F10030-02	Water	06/10/22 00:00	

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>Field in Water</b>			
pH, Field	PH	✓	
<b>SM 9221B/E in Water</b>			
Total Coliform		✓	
Fecal Coliform		✓	
<b>SM 9221F in Water</b>			
E. coli		✓	

SWT Engineering  
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Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**

06/27/2022 16:53

**Project Manager:** Lauren Murphy

## Sample Results

Sample: South  
2F10030-01 (Water) Sampled: 06/10/22 9:25 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Anions by IC, EPA Method 300.0</b>							
<b>Method:</b> EPA 300.0			<b>Instr:</b> LC12				
<b>Batch ID:</b> W2F1232	<b>Preparation:</b> _NONE (LC)		<b>Prepared:</b> 06/16/22 09:11			<b>Analyst:</b> jan	
Chloride, Total	120	0.95	2.5	mg/l	5	06/16/22	
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> EPA 1664B			<b>Instr:</b> SPE15				
<b>Batch ID:</b> W2F1005	<b>Preparation:</b> EPA 1664		<b>Prepared:</b> 06/14/22 09:00			<b>Analyst:</b> may	
Oil & Grease (HEM)	1.2	0.7	4.4	mg/l	1	06/16/22	J
<b>Method:</b> EPA 335.4			<b>Instr:</b> AA01				
<b>Batch ID:</b> W2F1363	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/17/22 16:05			<b>Analyst:</b> ISM	
Cyanide, Total	ND	3.8	5.0	ug/l	1	06/18/22	
<b>Method:</b> EPA 350.1			<b>Instr:</b> AA06				
<b>Batch ID:</b> W2F1045	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/14/22 12:37			<b>Analyst:</b> YMT	
Ammonia as N	0.29	0.017	0.10	mg/l	1	06/15/22	
<b>Method:</b> EPA 353.2			<b>Instr:</b> AA01				
<b>Batch ID:</b> W2F0867	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/10/22 14:09			<b>Analyst:</b> ISM	
NO2+NO3 as N	320	36	200	ug/l	1	06/10/22	FILT
<b>Method:</b> EPA 410.4			<b>Instr:</b> UVVIS04				
<b>Batch ID:</b> W2F1242	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/16/22 09:40			<b>Analyst:</b> heq	
Chemical Oxygen Demand	190	2.9	5.0	mg/l	1	06/19/22	
<b>Method:</b> SM 2540D			<b>Instr:</b> OVEN15				
<b>Batch ID:</b> W2F1193	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/15/22 15:17			<b>Analyst:</b> ttf	
Total Suspended Solids	ND	5	5	mg/l	1	06/15/22	
<b>Field Determinations</b>							
<b>Method:</b> Field			<b>Instr:</b> _FIELD				
<b>Batch ID:</b> W2F0930	<b>Preparation:</b> *** DEFAULT PREP ***		<b>Prepared:</b> 06/10/22 09:25			<b>Analyst:</b> _clnt	
pH, Field	8.20			pH Units	1	06/10/22 09:25	
<b>Metals by EPA 200 Series Methods</b>							
<b>Method:</b> EPA 200.7			<b>Instr:</b> ICP03				
<b>Batch ID:</b> W2F1424	<b>Preparation:</b> EPA 200.2		<b>Prepared:</b> 06/20/22 10:48			<b>Analyst:</b> kvm	
Iron, Total	0.36	0.0050	0.030	mg/l	1	06/21/22	
Phosphorus, Total	0.098	0.018	0.050	mg/l	1	06/21/22	
<b>Method:</b> EPA 200.8			<b>Instr:</b> ICPMS06				
<b>Batch ID:</b> W2F1428	<b>Preparation:</b> EPA 200.2		<b>Prepared:</b> 06/20/22 12:35			<b>Analyst:</b> MPN	
Arsenic, Total	9.3	0.074	0.40	ug/l	1	06/21/22	
Cadmium, Total	0.12	0.042	0.20	ug/l	1	06/21/22	J
Lead, Total	0.75	0.083	0.20	ug/l	1	06/21/22	
Magnesium, Total	26	0.16	5.0	mg/l	10	06/21/22	
Selenium, Total	0.78	0.067	0.40	ug/l	1	06/21/22	

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## Sample Results

(Continued)

Sample: South  
2F10030-01 (Water) Sampled: 06/10/22 9:25 by Paul Chang  
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Metals by EPA 200 Series Methods (Continued)

<b>Method:</b> EPA 200.8				<b>Instr:</b> ICPMS06			
<b>Batch ID:</b> W2F1428	<b>Preparation:</b> EPA 200.2			<b>Prepared:</b> 06/20/22 12:35		<b>Analyst:</b> MPN	
Silver, Total	ND	0.13	0.20	ug/l	1	06/21/22	
Zinc, Total	6.6	1.7	10	ug/l	1	06/21/22	J

<b>Method:</b> EPA 245.1				<b>Instr:</b> HG03			
<b>Batch ID:</b> W2F1121	<b>Preparation:</b> EPA 245.1			<b>Prepared:</b> 06/15/22 08:50		<b>Analyst:</b> KVM	
Mercury, Total	ND	0.037	0.050	ug/l	1	06/16/22	

### Microbiological Parameters by Standard Methods

<b>Method:</b> SM 9221B/E				<b>Instr:</b> WB09			
<b>Batch ID:</b> W2F0889	<b>Preparation:</b> _NONE (MICROBIOLOGY)			<b>Prepared:</b> 06/10/22 13:52		<b>Analyst:</b> slh	
Fecal Coliform	20	18	18	MPN/100ml	10	06/13/22	
Total Coliform	1100	18	18	MPN/100ml	10	06/14/22	

<b>Method:</b> SM 9221F				<b>Instr:</b> WB09			
<b>Batch ID:</b> W2F0889	<b>Preparation:</b> _NONE (MICROBIOLOGY)			<b>Prepared:</b> 06/10/22 13:52		<b>Analyst:</b> slh	
E. coli	ND		18	MPN/100ml	10	06/13/22	

### Volatile Organic Compounds by P&T and GC/MS

<b>Method:</b> EPA 8260B				<b>Instr:</b> GCMS21			
<b>Batch ID:</b> W2F1113	<b>Preparation:</b> EPA 5030B			<b>Prepared:</b> 06/15/22 07:44		<b>Analyst:</b> ADM	
Benzene	ND	2.2	10	ug/l	10	06/16/22	M-02
Ethylbenzene	ND	3.5	10	ug/l	10	06/16/22	M-02
m,p-Xylene	ND	7.9	10	ug/l	10	06/16/22	M-02
o-Xylene	ND	5.4	10	ug/l	10	06/16/22	M-02
Toluene	ND	4.7	10	ug/l	10	06/16/22	M-02

<i>Surrogate(s)</i>							
1,2-Dichloroethane-d4	95%	Conc: 47.3	86-126			06/16/22	
4-Bromofluorobenzene	91%	Conc: 45.6	80-112			06/16/22	
Dibromofluoromethane	98%	Conc: 49.2	89-120			06/16/22	
Toluene-d8	98%	Conc: 48.8	91-111			06/16/22	

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## Sample Results

Sample: Trip Blank  
2F10030-02 (Water) Sampled: 06/10/22 0:00 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W2F1113		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 06/15/22 07:44		<b>Analyst:</b> ADM	
Benzene	ND	0.22	1.0	ug/l	1	06/16/22	
Ethylbenzene	ND	0.35	1.0	ug/l	1	06/16/22	
m,p-Xylene	ND	0.79	1.0	ug/l	1	06/16/22	
o-Xylene	ND	0.54	1.0	ug/l	1	06/16/22	
Toluene	ND	0.47	1.0	ug/l	1	06/16/22	
<i>Surrogate(s)</i>							
1,2-Dichloroethane-d4	98%	Conc: 48.9	86-126			06/16/22	
4-Bromofluorobenzene	94%	Conc: 47.0	80-112			06/16/22	
Dibromofluoromethane	105%	Conc: 52.6	89-120			06/16/22	
Toluene-d8	100%	Conc: 49.8	91-111			06/16/22	

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## Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1232 - EPA 300.0</b>											
<b>Blank (W2F1232-BLK1)</b>					<b>Prepared &amp; Analyzed: 06/16/22</b>						
Chloride, Total	ND	0.19	0.50	mg/l							
<b>LCS (W2F1232-BS1)</b>					<b>Prepared &amp; Analyzed: 06/16/22</b>						
Chloride, Total	21.0	0.19	0.50	mg/l	20.0		105	90-110			
<b>Duplicate (W2F1232-DUP1)</b>					<b>Source: 2F06066-01RE1 Prepared &amp; Analyzed: 06/16/22</b>						
Chloride, Total	149	1.9	5.0	mg/l		149			0.01	20	
<b>Duplicate (W2F1232-DUP2)</b>					<b>Source: 2F07098-01RE1 Prepared &amp; Analyzed: 06/16/22</b>						
Chloride, Total	153	1.9	5.0	mg/l		153			0.4	20	
<b>Matrix Spike (W2F1232-MS1)</b>					<b>Source: 2F06066-01RE1 Prepared &amp; Analyzed: 06/16/22</b>						
Chloride, Total	347	1.9	5.0	mg/l	200	149	99	80-118			
<b>Matrix Spike (W2F1232-MS2)</b>					<b>Source: 2F07098-01RE1 Prepared &amp; Analyzed: 06/16/22</b>						
Chloride, Total	353	1.9	5.0	mg/l	200	153	100	80-118			
<b>Matrix Spike Dup (W2F1232-MSD1)</b>					<b>Source: 2F06066-01RE1 Prepared &amp; Analyzed: 06/16/22</b>						
Chloride, Total	349	1.9	5.0	mg/l	200	149	100	80-118	0.4	20	
<b>Matrix Spike Dup (W2F1232-MSD2)</b>					<b>Source: 2F07098-01RE1 Prepared &amp; Analyzed: 06/16/22</b>						
Chloride, Total	353	1.9	5.0	mg/l	200	153	100	80-118	0.06	20	

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F0867 - EPA 353.2</b>											
<b>Blank (W2F0867-BLK1)</b>					<b>Prepared &amp; Analyzed: 06/10/22</b>						
NO2+NO3 as N	ND	36	200	ug/l							
<b>LCS (W2F0867-BS1)</b>					<b>Prepared &amp; Analyzed: 06/10/22</b>						
NO2+NO3 as N	965	36	200	ug/l	1000		96	90-110			
<b>Duplicate (W2F0867-DUP1)</b>					<b>Source: 2F10064-01 Prepared &amp; Analyzed: 06/10/22</b>						
NO2+NO3 as N	54.3	36	200	ug/l		74.0			31	20	J, R-03
<b>Matrix Spike (W2F0867-MS1)</b>					<b>Source: 2F09089-05 Prepared &amp; Analyzed: 06/10/22</b>						
NO2+NO3 as N	1990	36	200	ug/l	2000	36.8	98	90-110			
<b>Matrix Spike (W2F0867-MS2)</b>					<b>Source: 2F09090-01 Prepared &amp; Analyzed: 06/10/22</b>						
NO2+NO3 as N	1930	36	200	ug/l	2000	38.4	95	90-110			
<b>Matrix Spike Dup (W2F0867-MSD1)</b>					<b>Source: 2F09089-05 Prepared &amp; Analyzed: 06/10/22</b>						
NO2+NO3 as N	1970	36	200	ug/l	2000	36.8	97	90-110	1	20	
<b>Matrix Spike Dup (W2F0867-MSD2)</b>					<b>Source: 2F09090-01 Prepared &amp; Analyzed: 06/10/22</b>						
NO2+NO3 as N	1950	36	200	ug/l	2000	38.4	96	90-110	1	20	
<b>Batch: W2F1005 - EPA 1664B</b>											
<b>Blank (W2F1005-BLK1)</b>					<b>Prepared: 06/14/22 Analyzed: 06/16/22</b>						
Oil & Grease (HEM)	ND	0.6	4.0	mg/l							

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## Quality Control Results

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### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1005 - EPA 1664B (Continued)</b>											
<b>LCS (W2F1005-BS1)</b>											
Oil & Grease (HEM)	16.5	0.6	4.0	mg/l	16.8		98	78-114			
					Prepared: 06/14/22 Analyzed: 06/16/22						
<b>LCS (W2F1005-BS2)</b>											
Oil & Grease (HEM)	3.50	0.6	4.0	mg/l	4.00		88	78-114			J
					Prepared: 06/14/22 Analyzed: 06/16/22						
<b>LCS Dup (W2F1005-BSD1)</b>											
Oil & Grease (HEM)	15.9	0.6	4.0	mg/l	16.8		94	78-114	4	18	
					Prepared: 06/14/22 Analyzed: 06/16/22						
<b>Batch: W2F1045 - EPA 350.1</b>											
<b>Blank (W2F1045-BLK1)</b>											
Ammonia as N	ND	0.017	0.10	mg/l							
					Prepared: 06/14/22 Analyzed: 06/15/22						
<b>LCS (W2F1045-BS1)</b>											
Ammonia as N	0.272	0.017	0.10	mg/l	0.250		109	90-110			
					Prepared: 06/14/22 Analyzed: 06/15/22						
<b>Matrix Spike (W2F1045-MS1)</b>											
Ammonia as N	0.550	0.017	0.10	mg/l	0.250	0.301	100	90-110			
					Prepared: 06/14/22 Analyzed: 06/15/22						
<b>Matrix Spike Dup (W2F1045-MSD1)</b>											
Ammonia as N	0.558	0.017	0.10	mg/l	0.250	0.301	103	90-110	1	15	
					Prepared: 06/14/22 Analyzed: 06/15/22						
<b>Batch: W2F1193 - SM 2540D</b>											
<b>Blank (W2F1193-BLK1)</b>											
Total Suspended Solids	ND	5	5	mg/l							
					Prepared & Analyzed: 06/15/22						
<b>LCS (W2F1193-BS1)</b>											
Total Suspended Solids	64.3	5	5	mg/l	60.0		107	90-110			
					Prepared & Analyzed: 06/15/22						
<b>Duplicate (W2F1193-DUP1)</b>											
Total Suspended Solids	167	5	5	mg/l		162			3	10	
					Prepared & Analyzed: 06/15/22						
<b>Duplicate (W2F1193-DUP2)</b>											
Total Suspended Solids	1040	5	5	mg/l		980			6	10	
					Prepared & Analyzed: 06/15/22						
<b>Batch: W2F1242 - EPA 410.4</b>											
<b>Blank (W2F1242-BLK1)</b>											
Chemical Oxygen Demand	ND	2.9	5.0	mg/l							
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>LCS (W2F1242-BS1)</b>											
Chemical Oxygen Demand	1020	2.9	5.0	mg/l	1000		102	90-110			
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>Duplicate (W2F1242-DUP1)</b>											
Chemical Oxygen Demand	12400	58	100	mg/l		13000			5	15	
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>Matrix Spike (W2F1242-MS1)</b>											
Chemical Oxygen Demand	203	12	20	mg/l	200	ND	102	90-110			
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>Matrix Spike (W2F1242-MS2)</b>											
Chemical Oxygen Demand	2510	12	20	mg/l	2000	618	95	90-110			
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>Matrix Spike Dup (W2F1242-MSD1)</b>											
Chemical Oxygen Demand	192	12	20	mg/l	200	ND	96	90-110	5	15	
					Prepared: 06/16/22 Analyzed: 06/19/22						
<b>Matrix Spike Dup (W2F1242-MSD2)</b>											
					Prepared: 06/16/22 Analyzed: 06/19/22						

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## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1242 - EPA 410.4 (Continued)</b>											
<b>Matrix Spike Dup (W2F1242-MSD2)</b> <b>Source: 2F14005-01</b> <b>Prepared: 06/16/22 Analyzed: 06/19/22</b>											
Chemical Oxygen Demand	2560	12	20	mg/l	2000	618	97	90-110	2	15	
<b>Batch: W2F1363 - EPA 335.4</b>											
<b>Blank (W2F1363-BLK1)</b> <b>Prepared: 06/17/22 Analyzed: 06/18/22</b>											
Cyanide, Total	ND	3.8	4.0	ug/l							
<b>LCS (W2F1363-BS1)</b> <b>Prepared: 06/17/22 Analyzed: 06/18/22</b>											
Cyanide, Total	95.8	3.8	4.0	ug/l	100		96	90-110			
<b>Matrix Spike (W2F1363-MS1)</b> <b>Source: 2E23007-01</b> <b>Prepared: 06/17/22 Analyzed: 06/18/22</b>											
Cyanide, Total	194	3.8	4.0	ug/l	200	ND	97	90-110			
<b>Matrix Spike Dup (W2F1363-MSD1)</b> <b>Source: 2E23007-01</b> <b>Prepared: 06/17/22 Analyzed: 06/18/22</b>											
Cyanide, Total	195	3.8	4.0	ug/l	200	ND	98	90-110	0.5	20	

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## Quality Control Results

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### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1121 - EPA 245.1</b>											
<b>Blank (W2F1121-BLK1)</b>					<b>Prepared: 06/15/22 Analyzed: 06/16/22</b>						
Mercury, Total	ND	0.037	0.050	ug/l							
<b>LCS (W2F1121-BS1)</b>					<b>Prepared: 06/15/22 Analyzed: 06/16/22</b>						
Mercury, Total	0.966	0.037	0.050	ug/l	1.00		97	85-115			
<b>Matrix Spike (W2F1121-MS1)</b>					<b>Source: 2F08100-01 Prepared: 06/15/22 Analyzed: 06/16/22</b>						
Mercury, Total	0.971	0.037	0.050	ug/l	1.00	ND	97	70-130			
<b>Matrix Spike Dup (W2F1121-MSD1)</b>					<b>Source: 2F08100-01 Prepared: 06/15/22 Analyzed: 06/16/22</b>						
Mercury, Total	0.958	0.037	0.050	ug/l	1.00	ND	96	70-130	1	20	
<b>Batch: W2F1424 - EPA 200.7</b>											
<b>Blank (W2F1424-BLK1)</b>					<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>						
Iron, Total	ND	0.0050	0.030	mg/l							
Phosphorus, Total	ND	0.018	0.050	mg/l							
<b>LCS (W2F1424-BS1)</b>					<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>						
Iron, Total	0.206	0.0050	0.030	mg/l	0.200		103	85-115			
Phosphorus, Total	2.09	0.018	0.050	mg/l	2.00		104	85-115			
<b>Matrix Spike (W2F1424-MS1)</b>					<b>Source: 2F14078-01 Prepared: 06/20/22 Analyzed: 06/21/22</b>						
Iron, Total	10.1	0.0050	0.030	mg/l	0.200	9.26	411	70-130			MS-02
Phosphorus, Total	24.1	0.018	0.050	mg/l	2.00	21.8	118	70-130			
<b>Matrix Spike Dup (W2F1424-MSD1)</b>					<b>Source: 2F14078-01 Prepared: 06/20/22 Analyzed: 06/21/22</b>						
Iron, Total	9.96	0.0050	0.030	mg/l	0.200	9.26	353	70-130	1	30	MS-02
Phosphorus, Total	24.0	0.018	0.050	mg/l	2.00	21.8	109	70-130	0.8	30	
<b>Batch: W2F1428 - EPA 200.8</b>											
<b>Blank (W2F1428-BLK1)</b>					<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>						
Arsenic, Total	ND	0.074	0.40	ug/l							
Cadmium, Total	ND	0.042	0.20	ug/l							
Lead, Total	ND	0.083	0.20	ug/l							
Magnesium, Total	ND	0.016	0.50	mg/l							
Selenium, Total	ND	0.067	0.40	ug/l							
Silver, Total	ND	0.13	0.20	ug/l							
Zinc, Total	ND	1.7	10	ug/l							
<b>LCS (W2F1428-BS1)</b>					<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>						
Arsenic, Total	48.8	0.074	0.40	ug/l	50.0		98	85-115			
Cadmium, Total	49.3	0.042	0.20	ug/l	50.0		99	85-115			
Lead, Total	49.2	0.083	0.20	ug/l	50.0		99	85-115			
Magnesium, Total	1.99	0.016	0.50	mg/l	2.05		97	85-115			
Selenium, Total	48.4	0.067	0.40	ug/l	50.0		97	85-115			
Silver, Total	45.6	0.13	0.20	ug/l	50.0		91	85-115			
Zinc, Total	49.0	1.7	10	ug/l	50.0		98	85-115			
<b>Matrix Spike (W2F1428-MS1)</b>					<b>Source: 2F14012-03 Prepared: 06/20/22 Analyzed: 06/21/22</b>						

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## Quality Control Results

### Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1428 - EPA 200.8 (Continued)</b>											
<b>Matrix Spike (W2F1428-MS1)</b>			<b>Source: 2F14012-03</b>			<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>					
Arsenic, Total	50.9	0.074	0.40	ug/l	50.0	2.47	97	70-130			
Cadmium, Total	43.1	0.042	0.20	ug/l	50.0	ND	86	70-130			
Lead, Total	51.6	0.083	0.20	ug/l	50.0	1.63	100	70-130			
Magnesium, Total	1200	0.016	0.50	mg/l	2.05	1260	NR	70-130			MS-02
Selenium, Total	43.8	0.067	0.40	ug/l	50.0	0.190	87	70-130			
Silver, Total	39.3	0.13	0.20	ug/l	50.0	ND	79	70-130			
Zinc, Total	67.9	1.7	10	ug/l	50.0	28.3	79	70-130			
<b>Matrix Spike Dup (W2F1428-MSD1)</b>											
<b>Source: 2F14012-03</b>			<b>Prepared: 06/20/22 Analyzed: 06/21/22</b>								
Arsenic, Total	51.0	0.074	0.40	ug/l	50.0	2.47	97	70-130	0.2	30	
Cadmium, Total	42.7	0.042	0.20	ug/l	50.0	ND	86	70-130	0.9	30	
Lead, Total	51.6	0.083	0.20	ug/l	50.0	1.63	100	70-130	0.1	30	
Magnesium, Total	1200	0.016	0.50	mg/l	2.05	1260	NR	70-130	0.4	30	MS-02
Selenium, Total	44.1	0.067	0.40	ug/l	50.0	0.190	88	70-130	0.6	30	
Silver, Total	39.3	0.13	0.20	ug/l	50.0	ND	79	70-130	0.07	30	
Zinc, Total	67.0	1.7	10	ug/l	50.0	28.3	77	70-130	1	30	

## Quality Control Results

(Continued)

### Microbiological Parameters by Standard Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F0889 - SM 9221F</b>											
<b>Blank (W2F0889-BLK1)</b>			<b>Prepared: 06/10/22 Analyzed: 06/13/22</b>								
E. coli	ND		1.8	MPN/100ml							
Fecal Coliform	ND	1.8	1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
06/27/2022 16:53

**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1113 - EPA 8260B</b>											
<b>Blank (W2F1113-BLK1)</b>					<b>Prepared &amp; Analyzed: 06/15/22</b>						
Benzene	ND	0.22	1.0	ug/l							
Ethylbenzene	ND	0.35	1.0	ug/l							
m,p-Xylene	ND	0.79	1.0	ug/l							
o-Xylene	ND	0.54	1.0	ug/l							
Toluene	ND	0.47	1.0	ug/l							
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	49.4			ug/l	50.0		99	86-126			
4-Bromofluorobenzene	47.1			ug/l	50.0		94	80-112			
Dibromofluoromethane	49.0			ug/l	50.0		98	89-120			
Toluene-d8	48.7			ug/l	50.0		97	91-111			
<b>LCS (W2F1113-BS1)</b>					<b>Prepared &amp; Analyzed: 06/15/22</b>						
Benzene	53.5	0.22	1.0	ug/l	50.0		107	80-117			
Ethylbenzene	51.2	0.35	1.0	ug/l	50.0		102	76-131			
m,p-Xylene	50.5	0.79	1.0	ug/l	50.0		101	80-126			
o-Xylene	47.9	0.54	1.0	ug/l	50.0		96	84-121			
Toluene	54.7	0.47	1.0	ug/l	50.0		109	82-122			
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	50.4			ug/l	50.0		101	86-126			
4-Bromofluorobenzene	49.0			ug/l	50.0		98	80-112			
Dibromofluoromethane	51.4			ug/l	50.0		103	89-120			
Toluene-d8	53.9			ug/l	50.0		108	91-111			
<b>LCS Dup (W2F1113-BSD1)</b>					<b>Prepared &amp; Analyzed: 06/15/22</b>						
Benzene	51.5	0.22	1.0	ug/l	50.0		103	80-117	4	25	
Ethylbenzene	51.5	0.35	1.0	ug/l	50.0		103	76-131	0.5	25	
m,p-Xylene	50.6	0.79	1.0	ug/l	50.0		101	80-126	0.3	25	
o-Xylene	49.6	0.54	1.0	ug/l	50.0		99	84-121	3	25	
Toluene	52.3	0.47	1.0	ug/l	50.0		105	82-122	5	25	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	48.9			ug/l	50.0		98	86-126			
4-Bromofluorobenzene	48.0			ug/l	50.0		96	80-112			
Dibromofluoromethane	50.2			ug/l	50.0		100	89-120			
Toluene-d8	49.8			ug/l	50.0		100	91-111			
<b>Matrix Spike (W2F1113-MS1)</b>					<b>Source: 2F10078-02 Prepared: 06/15/22 Analyzed: 06/16/22</b>						
Benzene	57.2	0.22	1.0	ug/l	50.0	ND	114	74-114			
Ethylbenzene	55.9	0.35	1.0	ug/l	50.0	ND	112	75-123			
m,p-Xylene	54.5	0.79	1.0	ug/l	50.0	ND	109	76-124			
o-Xylene	53.4	0.54	1.0	ug/l	50.0	ND	107	76-123			
Toluene	57.8	0.47	1.0	ug/l	50.0	ND	116	79-123			
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	48.1			ug/l	50.0		96	86-126			

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
06/27/2022 16:53

**Project Manager:** Lauren Murphy

(Continued)

## Quality Control Results

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2F1113 - EPA 8260B (Continued)</b>											
<b>Matrix Spike (W2F1113-MS1)</b>			<b>Source: 2F10078-02</b>			<b>Prepared: 06/15/22 Analyzed: 06/16/22</b>					
<i>Surrogate(s)</i>											
4-Bromofluorobenzene	47.7			ug/l	50.0		95	80-112			
Dibromofluoromethane	50.6			ug/l	50.0		101	89-120			
Toluene-d8	51.7			ug/l	50.0		103	91-111			
<b>Matrix Spike Dup (W2F1113-MSD1)</b>			<b>Source: 2F10078-02</b>			<b>Prepared: 06/15/22 Analyzed: 06/16/22</b>					
Benzene	57.1	0.22	1.0	ug/l	50.0	ND	114	74-114	0.2	25	
Ethylbenzene	55.4	0.35	1.0	ug/l	50.0	ND	111	75-123	0.8	25	
m,p-Xylene	55.3	0.79	1.0	ug/l	50.0	ND	111	76-124	1	25	
o-Xylene	53.0	0.54	1.0	ug/l	50.0	ND	106	76-123	0.8	25	
Toluene	56.6	0.47	1.0	ug/l	50.0	ND	113	79-123	2	25	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	48.1			ug/l	50.0		96	86-126			
4-Bromofluorobenzene	49.2			ug/l	50.0		98	80-112			
Dibromofluoromethane	50.3			ug/l	50.0		101	89-120			
Toluene-d8	51.0			ug/l	50.0		102	91-111			

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
06/27/2022 16:53

**Project Manager:** Lauren Murphy

## Notes and Definitions

Item	Definition
FILT	The sample was filtered prior to analysis.
J	Estimated conc. detected <MRL and >MDL.
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
MS-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
R-03	The RPD is not applicable for result below the reporting limit (either ND or J value).
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Weck Laboratories

Chain of Custody

Report To		Invoice To		Analysis Request										TAT																	
Company: Waste Connections, Inc.		Contact: Chiquita Canyon Landfill												Standard																	
Attn: Lauren Kahle and Randal Bodnar		Attn: Maribel Bolanos												10 Days		Rush															
Phone/Fax: 360-207-3465		Address: 29201 Henry Mayo Dr. Castaic, CA 91384												<input checked="" type="radio"/>		<input type="radio"/>															
Email Address: Lauren.Kahle@WasteConnections.com Randal.Bodnar@Waste.Connections.com		Phone/Fax: (661) 257-3655																													
Additionally Report To		Sampler Name:		Total Number of Containers per Sample ID										Parameters for Contaminated Soils WDR R4-2011-0052																	
ikm@swteng.com / 909-567-8052		Paul Chang																													
aav@swteng.com / 415-717-0910																															
pchang@changenvironmental.com																															
Project Information		Container		Preservative		Matrix												Notes													
Project ID: Chiquita Canyon Landfill - WDR																															
Project Number:																															
Sample Identification		Sample Collection		40ml Vial		Poly		Glass		Sleeve		Other		HCl		HNO3		H2SO4		Other		None		Water		Soil		Other			
		Date		Time																											
<del>East</del>																															
South		6/10/22		925																											
Trip Blank		-		-																											
Relinquished by		Received by		Date		Time		DDW Write On EDT Transmission? <input type="radio"/> Yes <input checked="" type="radio"/> No																							
				6/10/22		1047																									
								State System Number: _____																							
								If "Y" please enter the Source Number(s) in the column above																							
								CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No																							
								Global ID: _____										Sampling Company Log Code: _____													
								EDF to (Email Address): _____																							
								Travel and Site Time: _____										Mileage: _____		Misc. Supplies: _____											

2.2.2 TO202





WECK LABORATORIES, INC.

# Sample Receipt Checklist

Weck WKO: 2F10030  
 WKO Logged by: Jaime Gomez  
 Samples Checked by: Jaime Gomez

Date/Time Received: 06/10/22 @ 10:47  
 # of Samples: 02  
 Delivered by: Paul Chang

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Receipt Information	Sample Temperature	2.2 °C			
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)	Wet			
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Sample Preservation Verification?	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: none, <6mm/<Pea size? 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	pH verified upon receipt?				pH paper Lot# 231619
	Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 525.2<2; 6710B<2; 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Free Chlorine Tested <0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cl Test Strip Lot# 070620
	O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
					pH Reading:
	pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acid Lot#
				Amt added:	
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

PM Comments

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Sample Receipt Checklist Prepared by:

Signature: Jaime Gomez

Date: 06/10/22

**Work Orders:** 2L27010

**Project:** Chiquita Canyon Landfill - Stormwater

**Attn:** Lauren Murphy

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Report Date:** 2/10/2023

**Received Date:** 12/27/2022

**Turnaround Time:** Normal

**Phones:** (909) 567-8052

**Fax:**

**P.O. #:**

**Billing Code:**

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Lauren Murphy,

Enclosed are the results of analyses for samples received 12/27/22 with the Chain-of-Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Kim G. Tu  
Project Manager



SWT Engineering  
 800-C South Rochester Avenue  
 Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
 02/10/2023 16:57

**Project Manager:** Lauren Murphy

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	2L27010-01	Water	12/27/22 09:15	

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>SM 9221B in Water</b> Total Coliform		✓	
<b>SM 9221F in Water</b> E. coli		✓	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
02/10/2023 16:57

**Project Manager:** Lauren Murphy

## Sample Results

Sample: South  
2L27010-01 (Water) Sampled: 12/27/22 9:15 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Anions by IC, EPA Method 300.0</b>							
<b>Method:</b> EPA 300.0			<b>Instr:</b> LC12				
<b>Batch ID:</b> W3A0349	<b>Preparation:</b> _NONE (LC)		<b>Prepared:</b> 01/05/23 11:04			<b>Analyst:</b> jan	
<b>Chloride, Total</b>	<b>44</b>	0.19	0.50	mg/l	1	01/05/23	
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> EPA 1664B			<b>Instr:</b> SPE15				
<b>Batch ID:</b> W2L2173	<b>Preparation:</b> EPA 1664		<b>Prepared:</b> 12/29/22 08:23			<b>Analyst:</b> ell	
<b>Oil &amp; Grease (HEM)</b>	<b>2.6</b>	0.6	4.0	mg/l	1	12/29/22	J
<b>Method:</b> SM 2540D			<b>Instr:</b> OVEN15				
<b>Batch ID:</b> W2L2086	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 12/28/22 11:09			<b>Analyst:</b> mes	
<b>Total Suspended Solids</b>	<b>10</b>		5	mg/l	1	12/28/22	
<b>Metals (Aqueous) by EPA 6000/7000 Series Methods</b>							
<b>Method:</b> EPA 6010B			<b>Instr:</b> ICP03				
<b>Batch ID:</b> W3A0659	<b>Preparation:</b> EPA 3010A		<b>Prepared:</b> 01/10/23 08:26			<b>Analyst:</b> kvm	
<b>Iron, Total</b>	<b>0.36</b>	0.032	0.10	mg/l	1	01/13/23	
<b>Microbiological Parameters by Standard Methods</b>							
<b>Method:</b> SM 9221B			<b>Instr:</b> INC12				
<b>Batch ID:</b> W2L2059	<b>Preparation:</b> _NONE (MICROBIOLOGY)		<b>Prepared:</b> 12/27/22 14:30			<b>Analyst:</b> rea	
<b>Total Coliform</b>	<b>2400</b>	18	18	MPN/100ml	10	12/31/22	
<b>Method:</b> SM 9221F			<b>Instr:</b> WB09				
<b>Batch ID:</b> W2L2059	<b>Preparation:</b> _NONE (MICROBIOLOGY)		<b>Prepared:</b> 12/27/22 14:30			<b>Analyst:</b> rea	
<b>E. coli</b>	<b>110</b>		18	MPN/100ml	10	12/30/22	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
02/10/2023 16:57

**Project Manager:** Lauren Murphy

## Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3A0349 - EPA 300.0</b>											
<b>Blank (W3A0349-BLK1)</b>					<b>Prepared &amp; Analyzed: 01/05/23</b>						
Chloride, Total	ND	0.19	0.50	mg/l							
<b>LCS (W3A0349-BS1)</b>					<b>Prepared &amp; Analyzed: 01/05/23</b>						
Chloride, Total	20.8	0.19	0.50	mg/l	20.0		104	90-110			
<b>Matrix Spike (W3A0349-MS1)</b>					<b>Prepared &amp; Analyzed: 01/05/23</b>						
Source: 2L09012-03											
Chloride, Total	241	1.9	5.0	mg/l	200	43.8	99	76-118			
<b>Matrix Spike (W3A0349-MS2)</b>					<b>Prepared &amp; Analyzed: 01/05/23</b>						
Source: 2L30008-02											
Chloride, Total	231	1.9	5.0	mg/l	200	34.2	98	76-118			
<b>Matrix Spike Dup (W3A0349-MSD1)</b>					<b>Prepared &amp; Analyzed: 01/05/23</b>						
Source: 2L09012-03											
Chloride, Total	240	1.9	5.0	mg/l	200	43.8	98	76-118	0.2	20	
<b>Matrix Spike Dup (W3A0349-MSD2)</b>					<b>Prepared &amp; Analyzed: 01/05/23</b>						
Source: 2L30008-02											
Chloride, Total	230	1.9	5.0	mg/l	200	34.2	98	76-118	0.4	20	

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2L2086 - SM 2540D</b>											
<b>Blank (W2L2086-BLK1)</b>					<b>Prepared &amp; Analyzed: 12/28/22</b>						
Total Suspended Solids	ND	5	5	mg/l							
<b>LCS (W2L2086-BS1)</b>					<b>Prepared &amp; Analyzed: 12/28/22</b>						
Total Suspended Solids	65.8	5	5	mg/l	60.2		109	90-110			
<b>Duplicate (W2L2086-DUP1)</b>					<b>Prepared &amp; Analyzed: 12/28/22</b>						
Source: 2L23069-01											
Total Suspended Solids	322	5	5	mg/l		314			3	10	
<b>Duplicate (W2L2086-DUP2)</b>					<b>Prepared &amp; Analyzed: 12/28/22</b>						
Source: 2L28008-01											
Total Suspended Solids	24.7	5	5	mg/l		24.3			2	10	
<b>Batch: W2L2173 - EPA 1664B</b>											
<b>Blank (W2L2173-BLK1)</b>					<b>Prepared &amp; Analyzed: 12/29/22</b>						
Oil & Grease (HEM)	ND	0.6	4.0	mg/l							
<b>LCS (W2L2173-BS1)</b>					<b>Prepared &amp; Analyzed: 12/29/22</b>						
Oil & Grease (HEM)	15.1	0.6	4.0	mg/l	16.8		90	78-114			
<b>LCS (W2L2173-BS2)</b>					<b>Prepared &amp; Analyzed: 12/29/22</b>						
Oil & Grease (HEM)	3.40	0.6	4.0	mg/l	4.00		85	78-114			J
<b>LCS Dup (W2L2173-BSD1)</b>					<b>Prepared &amp; Analyzed: 12/29/22</b>						
Oil & Grease (HEM)	14.9	0.6	4.0	mg/l	16.8		88	78-114	1	18	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
02/10/2023 16:57

**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Metals (Aqueous) by EPA 6000/7000 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3A0659 - EPA 6010B</b>											
<b>Blank (W3A0659-BLK1)</b>					<b>Prepared: 01/10/23 Analyzed: 01/13/23</b>						
Iron, Total	ND	0.032	0.10	mg/l							
<b>LCS (W3A0659-BS1)</b>					<b>Prepared: 01/10/23 Analyzed: 01/13/23</b>						
Iron, Total	0.993	0.032	0.10	mg/l	0.999		99	80-120			
<b>Matrix Spike (W3A0659-MS1)</b>					<b>Source: 2L23004-01 Prepared: 01/10/23 Analyzed: 01/13/23</b>						
Iron, Total	1.02	0.032	0.10	mg/l	0.999	ND	102	75-125			
<b>Matrix Spike Dup (W3A0659-MSD1)</b>					<b>Source: 2L23004-01 Prepared: 01/10/23 Analyzed: 01/13/23</b>						
Iron, Total	1.01	0.032	0.10	mg/l	0.999	ND	101	75-125	0.7	20	

## Quality Control Results

(Continued)

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2L2059 - SM 9221F</b>											
<b>Blank (W2L2059-BLK1)</b>					<b>Prepared: 12/27/22 Analyzed: 12/30/22</b>						
E. coli	ND		1.8	MPN/100ml							
Total Coliform	ND	1.8	1.8	MPN/100ml							

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
02/10/2023 16:57

**Project Manager:** Lauren Murphy

## Notes and Definitions

Item	Definition
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
J	Estimated conc. detected <MRL and >MDL.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

**Work Orders:** 2L27010

**Project:** Chiquita Canyon Landfill - Stormwater

**Attn:** Lauren Murphy

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Report Date:** 2/10/2023

**Received Date:** 12/27/2022

**Turnaround Time:** Normal

**Phones:** (909) 567-8052

**Fax:**

**P.O. #:**

**Billing Code:**

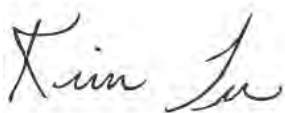
DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Lauren Murphy,

Enclosed are the results of analyses for samples received 12/27/22 with the Chain-of-Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Kim G. Tu  
Project Manager



SWT Engineering  
 800-C South Rochester Avenue  
 Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
 02/10/2023 17:00

**Project Manager:** Lauren Murphy

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	2L27010-01	Water	12/27/22 09:15	
TRIP BLANK	Paul Chang	2L27010-02	Water	12/27/22 00:00	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
02/10/2023 17:00

**Project Manager:** Lauren Murphy

## Sample Results

Sample: South  
2L27010-01 (Water) Sampled: 12/27/22 9:15 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> EPA 335.4			<b>Instr:</b> AA01				
<b>Batch ID:</b> W3A0029	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 01/03/23 09:38		<b>Analyst:</b> ISM		
Cyanide, Total	ND	3.8	5.0	ug/l	1	01/06/23	
<b>Method:</b> EPA 350.1			<b>Instr:</b> AA06				
<b>Batch ID:</b> W3A0062	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 01/03/23 12:01		<b>Analyst:</b> YMT		
Ammonia as N	0.022	0.017	0.10	mg/l	1	01/04/23	J
<b>Method:</b> EPA 353.2			<b>Instr:</b> AA01				
<b>Batch ID:</b> W2L2148	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 12/28/22 16:41		<b>Analyst:</b> ism		
NO2+NO3 as N	1200	36	200	ug/l	1	12/28/22	FILT
<b>Method:</b> EPA 410.4			<b>Instr:</b> UVVIS04				
<b>Batch ID:</b> W3A0039	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 01/03/23 10:15		<b>Analyst:</b> cpt		
Chemical Oxygen Demand	40	2.9	5.0	mg/l	1	01/03/23	
<b>Metals (Aqueous) by EPA 6000/7000 Series Methods</b>							
<b>Method:</b> EPA 6010			<b>Instr:</b> ICP03				
<b>Batch ID:</b> W3A0659	<b>Preparation:</b> EPA 3010A		<b>Prepared:</b> 01/10/23 08:26		<b>Analyst:</b> kvm		
Phosphorus, Total	0.14	0.012	0.020	mg/l	1	01/13/23	
<b>Method:</b> EPA 6010B			<b>Instr:</b> ICP03				
<b>Batch ID:</b> W3A0659	<b>Preparation:</b> EPA 3010A		<b>Prepared:</b> 01/10/23 08:26		<b>Analyst:</b> kvm		
Cadmium, Total	ND	0.00055	0.010	mg/l	1	01/13/23	
Magnesium, Total	9.3	0.023	0.50	mg/l	1	01/13/23	
Silver, Total	ND	0.0021	0.0050	mg/l	1	01/13/23	
Zinc, Total	0.0088	0.0040	0.050	mg/l	1	01/13/23	J
<b>Method:</b> EPA 6020			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W3A0660	<b>Preparation:</b> EPA 3010A		<b>Prepared:</b> 01/10/23 08:28		<b>Analyst:</b> aln		
Arsenic, Total	4.5	0.098	0.40	ug/l	1	02/03/23	
Lead, Total	0.67	0.29	1.0	ug/l	1	02/03/23	J
Selenium, Total	1.4	0.15	1.5	ug/l	1	02/07/23	J
<b>Method:</b> EPA 7470A			<b>Instr:</b> HG03				
<b>Batch ID:</b> W2L2087	<b>Preparation:</b> EPA 7470A		<b>Prepared:</b> 12/28/22 11:15		<b>Analyst:</b> KVM		
Mercury, Total	ND	0.075	0.10	ug/l	1	12/29/22	
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W2L2267	<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 12/30/22 06:48		<b>Analyst:</b> ADM		
1,1,1,2-Tetrachloroethane	ND	11	20	ug/l	20	12/30/22	M-05
1,1,1-Trichloroethane	ND	5.3	20	ug/l	20	12/30/22	M-05
1,1,2,2-Tetrachloroethane	ND	3.8	20	ug/l	20	12/30/22	M-05
1,1,2-Trichloroethane	ND	5.3	20	ug/l	20	12/30/22	M-05
1,1-Dichloroethane	ND	3.5	20	ug/l	20	12/30/22	M-05

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## Sample Results

(Continued)

Sample: South  
2L27010-01 (Water)  
Sampled: 12/27/22 9:15 by Paul Chang  
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W2L2267		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 12/30/22 06:48		<b>Analyst:</b> ADM	
1,1-Dichloroethene	ND	8.1	20	ug/l	20	12/30/22	M-05
1,1-Dichloropropene	ND	5.1	20	ug/l	20	12/30/22	M-05
1,2,3-Trichloropropane	ND	7.2	20	ug/l	20	12/30/22	M-05
1,2-Dibromo-3-chloropropane	ND	10	20	ug/l	20	12/30/22	M-05
1,2-Dibromoethane (EDB)	ND	3.0	20	ug/l	20	12/30/22	M-05
1,2-Dichloroethane	ND	8.0	20	ug/l	20	12/30/22	M-05
1,2-Dichloropropane	ND	3.3	20	ug/l	20	12/30/22	M-05
1,3-Dichloropropane	ND	7.4	20	ug/l	20	12/30/22	M-05
2,2-Dichloropropane	ND	5.8	20	ug/l	20	12/30/22	M-05
2-Butanone	ND	8.3	100	ug/l	20	12/30/22	M-05
2-Hexanone	ND	7.9	100	ug/l	20	12/30/22	M-05
4-Methyl-2-pentanone	ND	8.5	100	ug/l	20	12/30/22	M-05
Acetone	ND	42	100	ug/l	20	12/30/22	M-05
Acetonitrile	ND	40	100	ug/l	20	12/30/22	M-05
Acrylonitrile	ND	8.1	100	ug/l	20	12/30/22	M-05
Benzene	ND	4.5	20	ug/l	20	12/30/22	M-05
Bromochloromethane	ND	6.1	20	ug/l	20	12/30/22	M-05
Bromodichloromethane	ND	4.6	20	ug/l	20	12/30/22	M-05
Bromoform	ND	14	20	ug/l	20	12/30/22	M-05
Bromomethane	ND	8.2	20	ug/l	20	12/30/22	M-05
Carbon Disulfide	ND	6.0	20	ug/l	20	12/30/22	M-05
Carbon tetrachloride	ND	3.5	20	ug/l	20	12/30/22	M-05
Chlorobenzene	ND	3.2	20	ug/l	20	12/30/22	M-05
Chloroethane	ND	9.3	20	ug/l	20	12/30/22	M-05
Chloroform	ND	4.0	20	ug/l	20	12/30/22	M-05
Chloromethane	ND	7.2	20	ug/l	20	12/30/22	M-05
cis-1,2-Dichloroethene	ND	5.1	20	ug/l	20	12/30/22	M-05
cis-1,3-Dichloropropene	ND	7.6	20	ug/l	20	12/30/22	M-05
Dibromochloromethane	ND	3.5	20	ug/l	20	12/30/22	M-05
Dibromomethane	ND	5.9	20	ug/l	20	12/30/22	M-05
Dichlorodifluoromethane (Freon 12)	ND	7.7	20	ug/l	20	12/30/22	M-05
Ethylbenzene	ND	7.0	20	ug/l	20	12/30/22	M-05
Iodomethane	ND	5.4	20	ug/l	20	12/30/22	M-05
m,p-Xylene	ND	16	20	ug/l	20	12/30/22	M-05
m-Dichlorobenzene	ND	4.1	20	ug/l	20	12/30/22	M-05

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## Sample Results

(Continued)

Sample: South  
2L27010-01 (Water) Sampled: 12/27/22 9:15 by Paul Chang  
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W2L2267		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 12/30/22 06:48			<b>Analyst:</b> ADM
Methylene chloride	ND	6.3	20	ug/l	20	12/30/22	M-05
o-Dichlorobenzene	ND	2.4	20	ug/l	20	12/30/22	M-05
o-Xylene	ND	11	20	ug/l	20	12/30/22	M-05
p-Dichlorobenzene	ND	4.9	20	ug/l	20	12/30/22	M-05
Styrene	ND	5.5	20	ug/l	20	12/30/22	M-05
Tetrachloroethene	ND	4.8	20	ug/l	20	12/30/22	M-05
Toluene	ND	9.4	20	ug/l	20	12/30/22	M-05
trans-1,2-Dichloroethene	ND	6.8	20	ug/l	20	12/30/22	M-05
trans-1,3-Dichloropropene	ND	5.5	20	ug/l	20	12/30/22	M-05
trans-1,4-Dichloro-2-butene	ND	8.2	20	ug/l	20	12/30/22	M-05
Trichloroethene	ND	5.2	20	ug/l	20	12/30/22	M-05
Trichlorofluoromethane	ND	5.4	20	ug/l	20	12/30/22	M-05
Vinyl acetate	ND	7.2	20	ug/l	20	12/30/22	M-05
Vinyl chloride	ND	6.9	20	ug/l	20	12/30/22	M-05
<i>Surrogate(s)</i>							
1,2-Dichloroethane-d4	111%	Conc: 55.7	86-126			12/30/22	
4-Bromofluorobenzene	89%	Conc: 44.7	80-112			12/30/22	
Dibromofluoromethane	114%	Conc: 57.1	89-120			12/30/22	
Toluene-d8	98%	Conc: 49.0	91-111			12/30/22	

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**Project Manager:** Lauren Murphy

## Sample Results

(Continued)

Sample: TRIP BLANK

Sampled: 12/27/22 0:00 by Paul Chang

2L27010-02 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W2L2267		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 12/30/22 06:48		<b>Analyst:</b> ADM	
1,1,1,2-Tetrachloroethane	ND	0.56	1.0	ug/l	1	12/30/22	
1,1,1-Trichloroethane	ND	0.27	1.0	ug/l	1	12/30/22	
1,1,2,2-Tetrachloroethane	ND	0.19	1.0	ug/l	1	12/30/22	
1,1,2-Trichloroethane	ND	0.26	1.0	ug/l	1	12/30/22	
1,1-Dichloroethane	ND	0.17	1.0	ug/l	1	12/30/22	
1,1-Dichloroethene	ND	0.40	1.0	ug/l	1	12/30/22	
1,1-Dichloropropene	ND	0.25	1.0	ug/l	1	12/30/22	
1,2,3-Trichloropropane	ND	0.36	1.0	ug/l	1	12/30/22	
1,2-Dibromo-3-chloropropane	ND	0.52	1.0	ug/l	1	12/30/22	
1,2-Dibromoethane (EDB)	ND	0.15	1.0	ug/l	1	12/30/22	
1,2-Dichloroethane	ND	0.40	1.0	ug/l	1	12/30/22	
1,2-Dichloropropane	ND	0.17	1.0	ug/l	1	12/30/22	
1,3-Dichloropropane	ND	0.37	1.0	ug/l	1	12/30/22	
2,2-Dichloropropane	ND	0.29	1.0	ug/l	1	12/30/22	
2-Butanone	ND	0.41	5.0	ug/l	1	12/30/22	
2-Hexanone	ND	0.40	5.0	ug/l	1	12/30/22	
4-Methyl-2-pentanone	ND	0.43	5.0	ug/l	1	12/30/22	
Acetone	ND	2.1	5.0	ug/l	1	12/30/22	
Acetonitrile	ND	2.0	5.0	ug/l	1	12/30/22	
Acrylonitrile	ND	0.41	5.0	ug/l	1	12/30/22	
Benzene	ND	0.22	1.0	ug/l	1	12/30/22	
Bromochloromethane	ND	0.31	1.0	ug/l	1	12/30/22	
Bromodichloromethane	ND	0.23	1.0	ug/l	1	12/30/22	
Bromoform	ND	0.70	1.0	ug/l	1	12/30/22	
Bromomethane	ND	0.41	1.0	ug/l	1	12/30/22	
Carbon Disulfide	ND	0.30	1.0	ug/l	1	12/30/22	
Carbon tetrachloride	ND	0.17	1.0	ug/l	1	12/30/22	
Chlorobenzene	ND	0.16	1.0	ug/l	1	12/30/22	
Chloroethane	ND	0.47	1.0	ug/l	1	12/30/22	
Chloroform	ND	0.20	1.0	ug/l	1	12/30/22	
Chloromethane	ND	0.36	1.0	ug/l	1	12/30/22	
cis-1,2-Dichloroethene	ND	0.25	1.0	ug/l	1	12/30/22	
cis-1,3-Dichloropropene	ND	0.38	1.0	ug/l	1	12/30/22	
Dibromochloromethane	ND	0.18	1.0	ug/l	1	12/30/22	
Dibromomethane	ND	0.29	1.0	ug/l	1	12/30/22	

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**Project Manager:** Lauren Murphy

## Sample Results

(Continued)

Sample: TRIP BLANK  
2L27010-02 (Water) Sampled: 12/27/22 0:00 by Paul Chang  
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Volatile Organic Compounds by P&T and GC/MS (Continued)

**Method:** EPA 8260B

**Instr:** GCMS21

**Batch ID:** W2L2267

**Preparation:** EPA 5030B

**Prepared:** 12/30/22 06:48

**Analyst:** ADM

Dichlorodifluoromethane (Freon 12)	ND	0.39	1.0	ug/l	1	12/30/22	
Ethylbenzene	ND	0.35	1.0	ug/l	1	12/30/22	
Iodomethane	ND	0.27	1.0	ug/l	1	12/30/22	
m,p-Xylene	ND	0.79	1.0	ug/l	1	12/30/22	
m-Dichlorobenzene	ND	0.20	1.0	ug/l	1	12/30/22	
Methylene chloride	ND	0.32	1.0	ug/l	1	12/30/22	
o-Dichlorobenzene	ND	0.12	1.0	ug/l	1	12/30/22	
o-Xylene	ND	0.54	1.0	ug/l	1	12/30/22	
p-Dichlorobenzene	ND	0.25	1.0	ug/l	1	12/30/22	
Styrene	ND	0.27	1.0	ug/l	1	12/30/22	
Tetrachloroethene	ND	0.24	1.0	ug/l	1	12/30/22	
Toluene	ND	0.47	1.0	ug/l	1	12/30/22	
trans-1,2-Dichloroethene	ND	0.34	1.0	ug/l	1	12/30/22	
trans-1,3-Dichloropropene	ND	0.27	1.0	ug/l	1	12/30/22	
trans-1,4-Dichloro-2-butene	ND	0.41	1.0	ug/l	1	12/30/22	
Trichloroethene	ND	0.26	1.0	ug/l	1	12/30/22	
Trichlorofluoromethane	ND	0.27	1.0	ug/l	1	12/30/22	
Vinyl acetate	ND	0.36	1.0	ug/l	1	12/30/22	
Vinyl chloride	ND	0.35	1.0	ug/l	1	12/30/22	

### Surrogate(s)

1,2-Dichloroethane-d4	109%	Conc: 54.5	86-126	12/30/22
4-Bromofluorobenzene	93%	Conc: 46.3	80-112	12/30/22
Dibromofluoromethane	113%	Conc: 56.5	89-120	12/30/22
Toluene-d8	93%	Conc: 46.3	91-111	12/30/22

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## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2L2148 - EPA 353.2</b>											
<b>Blank (W2L2148-BLK1)</b>					<b>Prepared &amp; Analyzed: 12/28/22</b>						
NO2+NO3 as N	ND	36	200	ug/l							
<b>LCS (W2L2148-BS1)</b>					<b>Prepared &amp; Analyzed: 12/28/22</b>						
NO2+NO3 as N	1090	36	200	ug/l	1000		109	90-110			
<b>Matrix Spike (W2L2148-MS1)</b>					<b>Source: 2L27056-01</b>						
					<b>Prepared &amp; Analyzed: 12/28/22</b>						
NO2+NO3 as N	5920	36	200	ug/l	2000	3760	108	90-110			
<b>Matrix Spike (W2L2148-MS2)</b>					<b>Source: 2L27085-01</b>						
					<b>Prepared &amp; Analyzed: 12/28/22</b>						
NO2+NO3 as N	7000	36	200	ug/l	2000	4860	107	90-110			
<b>Matrix Spike Dup (W2L2148-MSD1)</b>					<b>Source: 2L27056-01</b>						
					<b>Prepared &amp; Analyzed: 12/28/22</b>						
NO2+NO3 as N	5920	36	200	ug/l	2000	3760	108	90-110	0	20	
<b>Matrix Spike Dup (W2L2148-MSD2)</b>					<b>Source: 2L27085-01</b>						
					<b>Prepared &amp; Analyzed: 12/28/22</b>						
NO2+NO3 as N	6980	36	200	ug/l	2000	4860	106	90-110	0.3	20	
<b>Batch: W3A0029 - EPA 335.4</b>											
<b>Blank (W3A0029-BLK1)</b>					<b>Prepared: 01/03/23 Analyzed: 01/06/23</b>						
Cyanide, Total	ND	3.8	5.0	ug/l							
<b>LCS (W3A0029-BS1)</b>					<b>Prepared: 01/03/23 Analyzed: 01/06/23</b>						
Cyanide, Total	104	3.8	5.0	ug/l	100		104	90-110			
<b>Matrix Spike (W3A0029-MS1)</b>					<b>Source: 2L28114-02</b>						
					<b>Prepared: 01/03/23 Analyzed: 01/06/23</b>						
Cyanide, Total	158	3.8	5.0	ug/l	200	ND	79	90-110			MS-01
<b>Matrix Spike (W3A0029-MS2)</b>					<b>Source: 2L28114-02</b>						
					<b>Prepared: 01/03/23 Analyzed: 01/06/23</b>						
Cyanide, Total	995	19	25	ug/l	1000	ND	100	90-110			
<b>Matrix Spike Dup (W3A0029-MSD1)</b>					<b>Source: 2L28114-02</b>						
					<b>Prepared: 01/03/23 Analyzed: 01/06/23</b>						
Cyanide, Total	159	3.8	5.0	ug/l	200	ND	80	90-110	0.6	20	MS-01
<b>Matrix Spike Dup (W3A0029-MSD2)</b>					<b>Source: 2L28114-02</b>						
					<b>Prepared: 01/03/23 Analyzed: 01/06/23</b>						
Cyanide, Total	945	19	25	ug/l	1000	ND	94	90-110	5	20	
<b>Batch: W3A0039 - EPA 410.4</b>											
<b>Blank (W3A0039-BLK1)</b>					<b>Prepared: 01/03/23 Analyzed: 01/04/23</b>						
Chemical Oxygen Demand	ND	2.9	5.0	mg/l							
<b>LCS (W3A0039-BS1)</b>					<b>Prepared &amp; Analyzed: 01/03/23</b>						
Chemical Oxygen Demand	105	2.9	5.0	mg/l	100		105	90-110			
<b>Duplicate (W3A0039-DUP1)</b>					<b>Source: 2L23050-01</b>						
					<b>Prepared &amp; Analyzed: 01/03/23</b>						
Chemical Oxygen Demand	1340	12	20	mg/l		1470			10	15	
<b>Matrix Spike (W3A0039-MS1)</b>					<b>Source: 2L28106-04</b>						
					<b>Prepared &amp; Analyzed: 01/03/23</b>						
Chemical Oxygen Demand	260	12	20	mg/l	200	42.2	109	90-110			
<b>Matrix Spike (W3A0039-MS2)</b>					<b>Source: 2L23065-01</b>						
					<b>Prepared &amp; Analyzed: 01/03/23</b>						
Chemical Oxygen Demand	2510	12	20	mg/l	2000	479	102	90-110			
<b>Matrix Spike Dup (W3A0039-MSD1)</b>					<b>Source: 2L28106-04</b>						
					<b>Prepared &amp; Analyzed: 01/03/23</b>						
Chemical Oxygen Demand	257	12	20	mg/l	200	42.2	108	90-110	1	15	

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## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3A0039 - EPA 410.4 (Continued)</b>											
<b>Matrix Spike Dup (W3A0039-MSD2)</b>			<b>Source: 2L23065-01</b>			<b>Prepared &amp; Analyzed: 01/03/23</b>					
Chemical Oxygen Demand	2460	12	20	mg/l	2000	479	99	90-110	2	15	
<b>Batch: W3A0062 - EPA 350.1</b>											
<b>Blank (W3A0062-BLK1)</b>						<b>Prepared: 01/03/23 Analyzed: 01/04/23</b>					
Ammonia as N	ND	0.017	0.10	mg/l							
<b>Blank (W3A0062-BLK2)</b>						<b>Prepared: 01/03/23 Analyzed: 01/04/23</b>					
Ammonia as N	ND	0.017	0.10	mg/l							
<b>LCS (W3A0062-BS1)</b>						<b>Prepared: 01/03/23 Analyzed: 01/04/23</b>					
Ammonia as N	0.250	0.017	0.10	mg/l	0.250		100	90-110			
<b>LCS (W3A0062-BS2)</b>						<b>Prepared: 01/03/23 Analyzed: 01/04/23</b>					
Ammonia as N	0.253	0.017	0.10	mg/l	0.250		101	90-110			
<b>Matrix Spike (W3A0062-MS1)</b>			<b>Source: 2L28092-19</b>			<b>Prepared: 01/03/23 Analyzed: 01/04/23</b>					
Ammonia as N	0.253	0.017	0.10	mg/l	0.250	ND	101	90-110			
<b>Matrix Spike (W3A0062-MS2)</b>			<b>Source: 2L29073-02</b>			<b>Prepared: 01/03/23 Analyzed: 01/04/23</b>					
Ammonia as N	0.241	0.017	0.10	mg/l	0.250	ND	96	90-110			
<b>Matrix Spike Dup (W3A0062-MSD1)</b>			<b>Source: 2L28092-19</b>			<b>Prepared: 01/03/23 Analyzed: 01/04/23</b>					
Ammonia as N	0.253	0.017	0.10	mg/l	0.250	ND	101	90-110	0.08	15	
<b>Matrix Spike Dup (W3A0062-MSD2)</b>			<b>Source: 2L29073-02</b>			<b>Prepared: 01/03/23 Analyzed: 01/04/23</b>					
Ammonia as N	0.241	0.017	0.10	mg/l	0.250	ND	96	90-110	0.2	15	

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## Quality Control Results

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Metals (Aqueous) by EPA 6000/7000 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2L2087 - EPA 7470A</b>											
<b>Blank (W2L2087-BLK1)</b>					<b>Prepared: 12/28/22 Analyzed: 12/29/22</b>						
Mercury, Total	ND	0.075	0.10	ug/l							
<b>LCS (W2L2087-BS1)</b>					<b>Prepared: 12/28/22 Analyzed: 12/29/22</b>						
Mercury, Total	1.15	0.075	0.10	ug/l	1.00		115	80-120			
<b>Matrix Spike (W2L2087-MS1)</b>					<b>Source: 2L20086-01</b>		<b>Prepared: 12/28/22 Analyzed: 12/29/22</b>				
Mercury, Total	1.09	0.075	0.10	ug/l	1.00	ND	109	60-129			
<b>Matrix Spike Dup (W2L2087-MSD1)</b>					<b>Source: 2L20086-01</b>		<b>Prepared: 12/28/22 Analyzed: 12/29/22</b>				
Mercury, Total	1.25	0.075	0.10	ug/l	1.00	ND	125	60-129	13	20	
<b>Batch: W3A0659 - EPA 6010B</b>											
<b>Blank (W3A0659-BLK1)</b>					<b>Prepared: 01/10/23 Analyzed: 01/13/23</b>						
Cadmium, Total	ND	0.00055	0.010	mg/l							
Magnesium, Total	ND	0.023	0.50	mg/l							
Phosphorus, Total	0.0136	0.012	0.020	mg/l							J
Silver, Total	ND	0.0021	0.0050	mg/l							
Zinc, Total	ND	0.0040	0.050	mg/l							
<b>LCS (W3A0659-BS1)</b>					<b>Prepared: 01/10/23 Analyzed: 01/13/23</b>						
Cadmium, Total	0.975	0.00055	0.010	mg/l	0.999		98	80-120			
Magnesium, Total	48.6	0.023	0.50	mg/l	51.0		95	80-120			
Phosphorus, Total	2.12	0.012	0.020	mg/l	2.00		106	80-120			
Silver, Total	0.977	0.0021	0.0050	mg/l	0.999		98	80-120			
Zinc, Total	0.971	0.0040	0.050	mg/l	0.999		97	80-120			
<b>Matrix Spike (W3A0659-MS1)</b>					<b>Source: 2L23004-01</b>		<b>Prepared: 01/10/23 Analyzed: 01/13/23</b>				
Cadmium, Total	0.962	0.00055	0.010	mg/l	0.999	ND	96	75-125			
Magnesium, Total	69.3	0.023	0.50	mg/l	51.0	21.1	95	75-125			
Phosphorus, Total	4.20	0.012	0.020	mg/l	2.00	2.12	104	75-125			
Silver, Total	0.983	0.0021	0.0050	mg/l	0.999	ND	98	75-125			
Zinc, Total	1.02	0.0040	0.050	mg/l	0.999	0.0486	97	75-125			
<b>Matrix Spike Dup (W3A0659-MSD1)</b>					<b>Source: 2L23004-01</b>		<b>Prepared: 01/10/23 Analyzed: 01/13/23</b>				
Cadmium, Total	0.953	0.00055	0.010	mg/l	0.999	ND	95	75-125	0.9	20	
Magnesium, Total	68.7	0.023	0.50	mg/l	51.0	21.1	93	75-125	0.9	20	
Phosphorus, Total	4.17	0.012	0.020	mg/l	2.00	2.12	103	75-125	0.7	20	
Silver, Total	0.974	0.0021	0.0050	mg/l	0.999	ND	97	75-125	1	20	
Zinc, Total	1.01	0.0040	0.050	mg/l	0.999	0.0486	96	75-125	0.8	20	
<b>Batch: W3A0660 - EPA 6020</b>											
<b>Blank (W3A0660-BLK1)</b>					<b>Prepared: 01/10/23 Analyzed: 02/03/23</b>						
Arsenic, Total	ND	0.098	0.40	ug/l							
Lead, Total	ND	0.29	1.0	ug/l							
Selenium, Total	ND	0.15	1.5	ug/l							
<b>LCS (W3A0660-BS1)</b>					<b>Prepared: 01/10/23 Analyzed: 02/03/23</b>						

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## Quality Control Results

Metals (Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3A0660 - EPA 6020 (Continued)</b>											
<b>LCS (W3A0660-BS1)</b>						<b>Prepared: 01/10/23 Analyzed: 02/03/23</b>					
Arsenic, Total	54.2	0.098	0.40	ug/l	50.0		108	80-120			
Lead, Total	50.6	0.29	1.0	ug/l	50.0		101	80-120			
Selenium, Total	59.1	0.15	1.5	ug/l	50.0		118	80-120			
<b>Matrix Spike (W3A0660-MS1)</b>						<b>Source: 2L27010-01 Prepared: 01/10/23 Analyzed: 02/03/23</b>					
Arsenic, Total	59.5	0.098	0.40	ug/l	50.0	4.53	110	75-125			
Lead, Total	51.4	0.29	1.0	ug/l	50.0	0.665	102	75-125			
Selenium, Total	51.4	0.15	1.5	ug/l	50.0	1.37	100	75-125			
<b>Matrix Spike Dup (W3A0660-MSD1)</b>						<b>Source: 2L27010-01 Prepared: 01/10/23 Analyzed: 02/03/23</b>					
Arsenic, Total	59.3	0.098	0.40	ug/l	50.0	4.53	109	75-125	0.4	20	
Lead, Total	51.6	0.29	1.0	ug/l	50.0	0.665	102	75-125	0.4	20	
Selenium, Total	52.4	0.15	1.5	ug/l	50.0	1.37	102	75-125	2	20	

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## Quality Control Results

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC		RPD		Qualifier
								Limits	RPD	Limit		
<b>Batch: W2L2267 - EPA 8260B</b>												
<b>Blank (W2L2267-BLK1)</b>						<b>Prepared &amp; Analyzed: 12/30/22</b>						
1,1,1,2-Tetrachloroethane	ND	0.56	1.0	ug/l								
1,1,1-Trichloroethane	ND	0.27	1.0	ug/l								
1,1,2,2-Tetrachloroethane	ND	0.19	1.0	ug/l								
1,1,2-Trichloroethane	ND	0.26	1.0	ug/l								
1,1-Dichloroethane	ND	0.17	1.0	ug/l								
1,1-Dichloroethene	ND	0.40	1.0	ug/l								
1,1-Dichloropropene	ND	0.25	1.0	ug/l								
1,2,3-Trichloropropane	ND	0.36	1.0	ug/l								
1,2,4-Trichlorobenzene	ND	0.29	1.0	ug/l								
1,2,4-Trimethylbenzene	ND	0.85	1.0	ug/l								
1,2-Dibromo-3-chloropropane	ND	0.52	1.0	ug/l								
1,2-Dibromoethane (EDB)	ND	0.15	1.0	ug/l								
1,2-Dichloroethane	ND	0.40	1.0	ug/l								
1,2-Dichloropropane	ND	0.17	1.0	ug/l								
1,3-Dichloropropane	ND	0.37	1.0	ug/l								
2,2-Dichloropropane	ND	0.29	1.0	ug/l								
2-Butanone	ND	0.41	5.0	ug/l								
2-Chloroethyl vinyl ether	ND	0.48	5.0	ug/l								
2-Hexanone	ND	0.40	5.0	ug/l								
4-Methyl-2-pentanone	ND	0.43	5.0	ug/l								
Acetone	ND	2.1	5.0	ug/l								
Acetonitrile	ND	2.0	5.0	ug/l								
Acrolein	ND	0.51	5.0	ug/l								
Acrylonitrile	ND	0.41	5.0	ug/l								
Allyl chloride	ND	0.15	1.0	ug/l								
Benzene	ND	0.22	1.0	ug/l								
Bromochloromethane	ND	0.31	1.0	ug/l								
Bromodichloromethane	ND	0.23	1.0	ug/l								
Bromoform	ND	0.70	1.0	ug/l								
Bromomethane	ND	0.41	1.0	ug/l								
Carbon Disulfide	ND	0.30	1.0	ug/l								
Carbon tetrachloride	ND	0.17	1.0	ug/l								
Chlorobenzene	ND	0.16	1.0	ug/l								
Chloroethane	ND	0.47	1.0	ug/l								
Chloroform	ND	0.20	1.0	ug/l								
Chloromethane	ND	0.36	1.0	ug/l								
Chloroprene	ND	0.18	1.0	ug/l								
cis-1,2-Dichloroethene	ND	0.25	1.0	ug/l								
cis-1,3-Dichloropropene	ND	0.38	1.0	ug/l								

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## Quality Control Results

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2L2267 - EPA 8260B (Continued)</b>											
<b>Blank (W2L2267-BLK1)</b>					<b>Prepared &amp; Analyzed: 12/30/22</b>						
Dibromochloromethane	ND	0.18	1.0	ug/l							
Dibromomethane	ND	0.29	1.0	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	0.39	1.0	ug/l							
Ethyl methacrylate	ND	0.27	1.0	ug/l							
Ethylbenzene	ND	0.35	1.0	ug/l							
Hexachlorobutadiene	ND	0.45	1.0	ug/l							
Iodomethane	ND	0.27	1.0	ug/l							
Isobutanol	ND	2.7	5.0	ug/l							
m,p-Xylene	ND	0.79	1.0	ug/l							
m-Dichlorobenzene	ND	0.20	1.0	ug/l							
Methacrylonitrile	ND	1.6	5.0	ug/l							
Methyl methacrylate	ND	0.32	1.0	ug/l							
Methyl tert-butyl ether (MTBE)	ND	0.61	3.0	ug/l							
Methylene chloride	ND	0.32	1.0	ug/l							
Naphthalene	ND	0.31	1.0	ug/l							
o-Dichlorobenzene	ND	0.12	1.0	ug/l							
o-Xylene	ND	0.54	1.0	ug/l							
p-Dichlorobenzene	ND	0.25	1.0	ug/l							
Propionitrile	ND	2.4	5.0	ug/l							
sec-Butylbenzene	ND	0.37	1.0	ug/l							
Styrene	ND	0.27	1.0	ug/l							
Tetrachloroethene	ND	0.24	1.0	ug/l							
Toluene	ND	0.47	1.0	ug/l							
trans-1,2-Dichloroethene	ND	0.34	1.0	ug/l							
trans-1,3-Dichloropropene	ND	0.27	1.0	ug/l							
trans-1,4-Dichloro-2-butene	ND	0.41	1.0	ug/l							
Trichloroethene	ND	0.26	1.0	ug/l							
Trichlorofluoromethane	ND	0.27	1.0	ug/l							
Vinyl acetate	ND	0.36	1.0	ug/l							
Vinyl chloride	ND	0.35	1.0	ug/l							
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	53.5			ug/l	50.0		107	86-126			
4-Bromofluorobenzene	47.6			ug/l	50.0		95	80-112			
Dibromofluoromethane	54.5			ug/l	50.0		109	89-120			
Toluene-d8	46.8			ug/l	50.0		94	91-111			
<b>LCS (W2L2267-BS1)</b>											
<b>Prepared &amp; Analyzed: 12/30/22</b>											
1,1,1,2-Tetrachloroethane	59.2	0.56	1.0	ug/l	50.0		118	83-118			
1,1,1-Trichloroethane	57.9	0.27	1.0	ug/l	50.0		116	82-123			
1,1,2,2-Tetrachloroethane	49.1	0.19	1.0	ug/l	50.0		98	72-116			

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## Quality Control Results

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2L2267 - EPA 8260B (Continued)</b>					<b>Prepared &amp; Analyzed: 12/30/22</b>					
<b>LCS (W2L2267-BS1)</b>										
1,1,2-Trichloroethane	52.9	0.26	1.0	ug/l	50.0		106 84-118			
1,1-Dichloroethane	51.8	0.17	1.0	ug/l	50.0		104 83-114			
1,1-Dichloroethene	47.5	0.40	1.0	ug/l	50.0		95 76-130			
1,1-Dichloropropene	55.5	0.25	1.0	ug/l	50.0		111 82-128			
1,2,3-Trichloropropane	53.4	0.36	1.0	ug/l	50.0		107 72-117			
1,2,4-Trichlorobenzene	56.5	0.29	1.0	ug/l	50.0		113 70-131			
1,2,4-Trimethylbenzene	53.6	0.85	1.0	ug/l	50.0		107 83-119			
1,2-Dibromo-3-chloropropane	56.1	0.52	1.0	ug/l	50.0		112 67-126			
1,2-Dibromoethane (EDB)	56.1	0.15	1.0	ug/l	50.0		112 85-123			
1,2-Dichloroethane	53.2	0.40	1.0	ug/l	50.0		106 79-117			
1,2-Dichloropropane	54.9	0.17	1.0	ug/l	50.0		110 79-124			
1,3-Dichloropropane	55.0	0.37	1.0	ug/l	50.0		110 79-129			
2,2-Dichloropropane	70.1	0.29	1.0	ug/l	50.0		140 73-131			Q-08
2-Butanone	50.5	0.41	5.0	ug/l	50.0		101 66-134			
2-Chloroethyl vinyl ether	54.9	0.48	5.0	ug/l	50.0		110 55-141			
2-Hexanone	54.0	0.40	5.0	ug/l	50.0		108 66-142			
4-Methyl-2-pentanone	55.8	0.43	5.0	ug/l	50.0		112 68-139			
Acetone	444	2.1	5.0	ug/l	500		89 58-147			
Acetonitrile	74.6	2.0	5.0	ug/l	100		75 60-140			
Acrolein	46.0	0.51	5.0	ug/l	50.0		92 40-158			
Acrylonitrile	46.2	0.41	5.0	ug/l	50.0		92 67-131			
Allyl chloride	21.8	0.15	1.0	ug/l	20.0		109 74-129			
Benzene	52.6	0.22	1.0	ug/l	50.0		105 80-117			
Bromochloromethane	53.8	0.31	1.0	ug/l	50.0		108 79-117			
Bromodichloromethane	58.7	0.23	1.0	ug/l	50.0		117 83-132			
Bromoform	59.3	0.70	1.0	ug/l	50.0		119 72-129			
Bromomethane	37.1	0.41	1.0	ug/l	50.0		74 52-144			
Carbon Disulfide	56.3	0.30	1.0	ug/l	50.0		113 76-124			
Carbon tetrachloride	59.2	0.17	1.0	ug/l	50.0		118 77-134			
Chlorobenzene	51.5	0.16	1.0	ug/l	50.0		103 82-114			
Chloroethane	44.2	0.47	1.0	ug/l	50.0		88 68-127			
Chloroform	52.7	0.20	1.0	ug/l	50.0		105 83-118			
Chloromethane	42.5	0.36	1.0	ug/l	50.0		85 59-120			
Chloroprene	19.2	0.18	1.0	ug/l	20.0		96 66-135			
cis-1,2-Dichloroethene	55.5	0.25	1.0	ug/l	50.0		111 80-126			
cis-1,3-Dichloropropene	59.2	0.38	1.0	ug/l	50.0		118 84-130			
Dibromochloromethane	56.6	0.18	1.0	ug/l	50.0		113 83-132			
Dibromomethane	57.4	0.29	1.0	ug/l	50.0		115 80-122			
Dichlorodifluoromethane (Freon 12)	40.9	0.39	1.0	ug/l	50.0		82 65-119			

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## Quality Control Results

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2L2267 - EPA 8260B (Continued)</b>										
<b>LCS (W2L2267-BS1)</b>					<b>Prepared &amp; Analyzed: 12/30/22</b>					
Ethyl methacrylate	26.9	0.27	1.0	ug/l	20.0		135 67-135			
Ethylbenzene	54.5	0.35	1.0	ug/l	50.0		109 76-131			
Hexachlorobutadiene	57.3	0.45	1.0	ug/l	50.0		115 71-124			
Iodomethane	16.0	0.27	1.0	ug/l	20.0		80 74-134			
Isobutanol	127	2.7	5.0	ug/l	100		127 66-133			
m,p-Xylene	53.2	0.79	1.0	ug/l	50.0		106 80-126			
m-Dichlorobenzene	57.2	0.20	1.0	ug/l	50.0		114 79-119			
Methacrylonitrile	116	1.6	5.0	ug/l	100		116 69-131			
Methyl methacrylate	26.0	0.32	1.0	ug/l	20.0		130 72-133			
Methyl tert-butyl ether (MTBE)	216	0.61	3.0	ug/l	200		108 79-131			
Methylene chloride	45.6	0.32	1.0	ug/l	50.0		91 78-115			
Naphthalene	51.6	0.31	1.0	ug/l	50.0		103 64-145			
o-Dichlorobenzene	52.0	0.12	1.0	ug/l	50.0		104 80-117			
o-Xylene	52.9	0.54	1.0	ug/l	50.0		106 84-121			
p-Dichlorobenzene	52.5	0.25	1.0	ug/l	50.0		105 80-117			
Propionitrile	109	2.4	5.0	ug/l	100		109 64-133			
sec-Butylbenzene	54.6	0.37	1.0	ug/l	50.0		109 83-118			
Styrene	52.5	0.27	1.0	ug/l	50.0		105 87-126			
Tetrachloroethene	62.5	0.24	1.0	ug/l	50.0		125 79-126			
Toluene	54.3	0.47	1.0	ug/l	50.0		109 82-122			
trans-1,2-Dichloroethene	49.6	0.34	1.0	ug/l	50.0		99 83-121			
trans-1,3-Dichloropropene	56.4	0.27	1.0	ug/l	50.0		113 82-137			
trans-1,4-Dichloro-2-butene	29.2	0.41	1.0	ug/l	20.0		146 73-136			Q-08
Trichloroethene	54.5	0.26	1.0	ug/l	50.0		109 81-121			
Trichlorofluoromethane	45.0	0.27	1.0	ug/l	50.0		90 71-131			
Vinyl acetate	20.4	0.36	1.0	ug/l	20.0		102 71-127			
Vinyl chloride	40.5	0.35	1.0	ug/l	50.0		81 66-124			
<i>Surrogate(s)</i>										
1,2-Dichloroethane-d4	50.2			ug/l	50.0		100 86-126			
4-Bromofluorobenzene	49.6			ug/l	50.0		99 80-112			
Dibromofluoromethane	50.5			ug/l	50.0		101 89-120			
Toluene-d8	49.2			ug/l	50.0		98 91-111			
<b>LCS Dup (W2L2267-BSD1)</b>					<b>Prepared &amp; Analyzed: 12/30/22</b>					
1,1,1,2-Tetrachloroethane	58.0	0.56	1.0	ug/l	50.0		116 83-118	2	25	
1,1,1-Trichloroethane	57.5	0.27	1.0	ug/l	50.0		115 82-123	0.7	25	
1,1,2,2-Tetrachloroethane	48.0	0.19	1.0	ug/l	50.0		96 72-116	2	25	
1,1,2-Trichloroethane	53.8	0.26	1.0	ug/l	50.0		108 84-118	2	25	
1,1-Dichloroethane	52.3	0.17	1.0	ug/l	50.0		105 83-114	0.9	25	
1,1-Dichloroethene	47.4	0.40	1.0	ug/l	50.0		95 76-130	0.2	25	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
02/10/2023 17:00

**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2L2267 - EPA 8260B (Continued)</b>										
<b>LCS Dup (W2L2267-BSD1)</b>					<b>Prepared &amp; Analyzed: 12/30/22</b>					
1,1-Dichloropropene	54.2	0.25	1.0	ug/l	50.0	108	82-128	2	25	
1,2,3-Trichloropropane	53.1	0.36	1.0	ug/l	50.0	106	72-117	0.6	25	
1,2,4-Trichlorobenzene	55.6	0.29	1.0	ug/l	50.0	111	70-131	2	25	
1,2,4-Trimethylbenzene	51.6	0.85	1.0	ug/l	50.0	103	83-119	4	25	
1,2-Dibromo-3-chloropropane	55.1	0.52	1.0	ug/l	50.0	110	67-126	2	25	
1,2-Dibromoethane (EDB)	57.0	0.15	1.0	ug/l	50.0	114	85-123	2	25	
1,2-Dichloroethane	52.6	0.40	1.0	ug/l	50.0	105	79-117	1	25	
1,2-Dichloropropane	54.1	0.17	1.0	ug/l	50.0	108	79-124	1	25	
1,3-Dichloropropane	55.7	0.37	1.0	ug/l	50.0	111	79-129	1	25	
2,2-Dichloropropane	67.2	0.29	1.0	ug/l	50.0	134	73-131	4	25	Q-08
2-Butanone	51.3	0.41	5.0	ug/l	50.0	103	66-134	2	25	
2-Chloroethyl vinyl ether	56.0	0.48	5.0	ug/l	50.0	112	55-141	2	25	
2-Hexanone	55.4	0.40	5.0	ug/l	50.0	111	66-142	3	25	
4-Methyl-2-pentanone	55.8	0.43	5.0	ug/l	50.0	112	68-139	0.2	25	
Acetone	452	2.1	5.0	ug/l	500	90	58-147	2	25	
Acetonitrile	81.1	2.0	5.0	ug/l	100	81	60-140	8	25	
Acrolein	50.9	0.51	5.0	ug/l	50.0	102	40-158	10	25	
Acrylonitrile	49.7	0.41	5.0	ug/l	50.0	99	67-131	7	25	
Allyl chloride	23.2	0.15	1.0	ug/l	20.0	116	74-129	6	25	
Benzene	53.5	0.22	1.0	ug/l	50.0	107	80-117	2	25	
Bromochloromethane	53.2	0.31	1.0	ug/l	50.0	106	79-117	1	25	
Bromodichloromethane	59.0	0.23	1.0	ug/l	50.0	118	83-132	0.5	25	
Bromoform	58.6	0.70	1.0	ug/l	50.0	117	72-129	1	25	
Bromomethane	38.7	0.41	1.0	ug/l	50.0	77	52-144	4	25	
Carbon Disulfide	58.3	0.30	1.0	ug/l	50.0	116	76-124	3	25	
Carbon tetrachloride	56.9	0.17	1.0	ug/l	50.0	114	77-134	4	25	
Chlorobenzene	48.2	0.16	1.0	ug/l	50.0	96	82-114	7	25	
Chloroethane	46.8	0.47	1.0	ug/l	50.0	94	68-127	6	25	
Chloroform	53.7	0.20	1.0	ug/l	50.0	107	83-118	2	25	
Chloromethane	45.6	0.36	1.0	ug/l	50.0	91	59-120	7	25	
Chloroprene	19.5	0.18	1.0	ug/l	20.0	98	66-135	2	25	
cis-1,2-Dichloroethene	54.3	0.25	1.0	ug/l	50.0	109	80-126	2	25	
cis-1,3-Dichloropropene	57.3	0.38	1.0	ug/l	50.0	115	84-130	3	25	
Dibromochloromethane	56.4	0.18	1.0	ug/l	50.0	113	83-132	0.2	25	
Dibromomethane	57.4	0.29	1.0	ug/l	50.0	115	80-122	0.04	25	
Dichlorodifluoromethane (Freon 12)	43.3	0.39	1.0	ug/l	50.0	87	65-119	6	25	
Ethyl methacrylate	27.4	0.27	1.0	ug/l	20.0	137	67-135	2	25	Q-08
Ethylbenzene	52.6	0.35	1.0	ug/l	50.0	105	76-131	4	25	
Hexachlorobutadiene	55.1	0.45	1.0	ug/l	50.0	110	71-124	4	25	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
02/10/2023 17:00

**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2L2267 - EPA 8260B (Continued)</b>											
<b>LCS Dup (W2L2267-BSD1)</b>					<b>Prepared &amp; Analyzed: 12/30/22</b>						
Iodomethane	16.2	0.27	1.0	ug/l	20.0	81	74-134	1	25		
Isobutanol	128	2.7	5.0	ug/l	100	128	66-133	0.5	25		
m,p-Xylene	51.1	0.79	1.0	ug/l	50.0	102	80-126	4	25		
m-Dichlorobenzene	55.3	0.20	1.0	ug/l	50.0	111	79-119	3	25		
Methacrylonitrile	119	1.6	5.0	ug/l	100	119	69-131	2	25		
Methyl methacrylate	26.9	0.32	1.0	ug/l	20.0	134	72-133	3	25		Q-08
Methyl tert-butyl ether (MTBE)	219	0.61	3.0	ug/l	200	110	79-131	1	25		
Methylene chloride	47.7	0.32	1.0	ug/l	50.0	95	78-115	4	25		
Naphthalene	51.4	0.31	1.0	ug/l	50.0	103	64-145	0.4	25		
o-Dichlorobenzene	51.3	0.12	1.0	ug/l	50.0	103	80-117	1	25		
o-Xylene	52.3	0.54	1.0	ug/l	50.0	105	84-121	1	25		
p-Dichlorobenzene	51.2	0.25	1.0	ug/l	50.0	102	80-117	2	25		
Propionitrile	110	2.4	5.0	ug/l	100	110	64-133	1	25		
sec-Butylbenzene	51.4	0.37	1.0	ug/l	50.0	103	83-118	6	25		
Styrene	51.0	0.27	1.0	ug/l	50.0	102	87-126	3	25		
Tetrachloroethene	63.0	0.24	1.0	ug/l	50.0	126	79-126	0.9	25		
Toluene	52.4	0.47	1.0	ug/l	50.0	105	82-122	4	25		
trans-1,2-Dichloroethene	48.0	0.34	1.0	ug/l	50.0	96	83-121	3	25		
trans-1,3-Dichloropropene	58.9	0.27	1.0	ug/l	50.0	118	82-137	4	25		
trans-1,4-Dichloro-2-butene	28.1	0.41	1.0	ug/l	20.0	141	73-136	4	25		Q-08
Trichloroethene	53.6	0.26	1.0	ug/l	50.0	107	81-121	2	25		
Trichlorofluoromethane	45.2	0.27	1.0	ug/l	50.0	90	71-131	0.6	25		
Vinyl acetate	22.3	0.36	1.0	ug/l	20.0	112	71-127	9	25		
Vinyl chloride	43.4	0.35	1.0	ug/l	50.0	87	66-124	7	25		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	51.0			ug/l	50.0	102	86-126				
4-Bromofluorobenzene	48.4			ug/l	50.0	97	80-112				
Dibromofluoromethane	51.9			ug/l	50.0	104	89-120				
Toluene-d8	49.8			ug/l	50.0	100	91-111				

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Stormwater

**Reported:**  
02/10/2023 17:00

**Project Manager:** Lauren Murphy

## Notes and Definitions

Item	Definition
<b>FILT</b>	The sample was filtered prior to analysis.
<b>J</b>	Estimated conc. detected <MRL and >MDL.
<b>M-05</b>	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
<b>MS-01</b>	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
<b>Q-08</b>	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
<b>%REC</b>	Percent Recovery
<b>Dil</b>	Dilution
<b>MDL</b>	Method Detection Limit
<b>MRL</b>	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
<b>ND</b>	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
<b>RPD</b>	Relative Percent Difference
<b>Source</b>	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.





**Weck Laboratories**

**Chain of Custody**

227010 Pg 1 of 1

<b>Report To</b> Company: Waste Connections, Inc. Attn: Lauren Kahle and Randal Bodnar Phone/Fax: 360-207-3465 Email Address: Lauren.Kahle@WasteConnections.com, Randal.Bodnar@Waste.Connections.com			<b>Invoice To</b> Contact: Chiquita Canyon Landfill Attn: Maribel Bolanos Address: 29201 Henry Mayo Dr. Castaic, CA 91384 Phone/Fax: (661) 257-3655			<b>Analysis Request</b>										<b>TAT</b> Standard: 10 Days <input checked="" type="radio"/> Rush: ___ Days / Hours <input type="radio"/>																			
Additionally Report To lkm@swteng.com / 909-567-8052 aav@swteng.com / 415-717-0910 pchang@changenvironmental.com			Sampler Name: <i>Paul Ohary</i>			Parameters for Contaminated Soils WDR R4-2011-0052										Notes																			
<b>Project Information</b> Project ID: Chiquita Canyon Landfill - WDR Project Number:			<b>Container</b>	<b>Preservative</b>			<b>Matrix</b>						<b>Total Number of Containers per Sample ID</b>																						
<b>Sample Identification</b>		<b>Sample Collection</b>		40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other	Ammonia (SM 4500)	COD (SM 5220 C)	Cyanide, Total (SM 4500 CN C, D, or E) ✓	Nitrate + Nitrite Nitrogen (SM 4500-NO3-E) ✓	Phosphorous, Total (SM 4500-P B+E) ✓	Arsenic, Total (EPA 200.8) ✓	Cadmium, Total (EPA 200.8) ✓	Lead, Total (EPA 200.8) ✓	Magnesium, Total (EPA 200.7) ✓	Mercury, Total (EPA 245.1) ✓	Selenium, Total (EPA 200.8) ✓	Silver, Total (EPA 200.8) ✓	Zinc, Total (EPA 200.8) ✓	BTEX (EPA 8260) ✓					
East																	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
South	12/27/22	9:15															11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Trip Blank																																			
<b>Relinquished by</b> <i>[Signature]</i>			<b>Received by</b> <i>[Signature]</i>			<b>Date</b> 12/27/22	<b>Time</b> 11:39	<b>DDW Write On EDT Transmission?</b> <input type="radio"/> Yes <input checked="" type="radio"/> No										<b>State System Number:</b> _____ If "Y" please enter the Source Number(s) in the column above																	
								<b>CA Geotracker EDF Report?</b> <input type="radio"/> Yes <input checked="" type="radio"/> No										<b>Global ID:</b> _____ <b>EDF to (Email Address):</b> _____ <b>Sampling Company Log Code:</b> _____																	
								<b>Travel and Site Time:</b> _____ <b>Mileage:</b> _____ <b>Misc. Supplies:</b> _____																											

2.3c TO 2022

# Sample Receipt Checklist

Weck WKO: 2L27010  
 WKO Logged by: Jerico Bolotano  
 Samples Checked by: Jerico Bolotano

Date/Time Received: 12/27/22 @ 10:39  
 # of Samples: 01  
 Delivered by: Client

Task	Yes	No	N/A	Comments	
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Receipt Information	Sample Temperature	2.3°C			
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)	Wet			
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Sample Preservation Verification?	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <6mm/Pea size?
	pH verified upon receipt?				pH paper Lot# 2071882
	Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 525.2<2; 6710B<2; 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Free Chlorine Tested <0.1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cl Test Strip Lot# 061221E
	O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
	pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading: Acid Lot#
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Amt added:

PM Comments

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Sample Receipt Checklist Prepared by:

Signature: JB

Date: 12/27/22

**Work Orders:** 3E30093

**Report Date:** 7/03/2023

**Project:** Chiquita Canyon Landfill - IGP

**Received Date:** 05/30/2023

**Turnaround Time:** Normal

**Phones:** (909) 567-8052

**Fax:**

**Attn:** Lauren Murphy

**P.O. #:**

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Billing Code:**

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Lauren Murphy,

Enclosed are the results of analyses for samples received 5/30/23 with the Chain-of-Custody document. The samples were received in good condition, at 7.0 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Kim G. Tu  
Project Manager



SWT Engineering  
 800-C South Rochester Avenue  
 Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - IGP

**Reported:**  
 07/03/2023 11:26

**Project Manager:** Lauren Murphy

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	3E30093-01	Water	05/30/23 11:35	

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
<b>SM 9221B/E in Water</b>			
Total Coliform		✓	
Fecal Coliform		✓	
<b>SM 9221F in Water</b>			
E. coli		✓	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - IGP

**Reported:**  
07/03/2023 11:26

**Project Manager:** Lauren Murphy

## Sample Results

Sample: South  
3E30093-01 (Water) Sampled: 05/30/23 11:35 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Anions by IC, EPA Method 300.0</b>							
<b>Method:</b> EPA 300.0			<b>Instr:</b> LC12				
<b>Batch ID:</b> W3E2582		<b>Preparation:</b> _NONE (LC)		<b>Prepared:</b> 05/31/23 09:57		<b>Analyst:</b> jna	
Chloride, Total	110	0.19	0.50	mg/l	1	05/31/23	
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> EPA 1664B			<b>Instr:</b> SPE15				
<b>Batch ID:</b> W3E2560		<b>Preparation:</b> EPA 1664		<b>Prepared:</b> 05/31/23 08:30		<b>Analyst:</b> cll	
Oil & Grease (HEM)	2.3	0.6	4.0	mg/l	1	05/31/23	J
<b>Method:</b> SM 2540D			<b>Instr:</b> OVEN15				
<b>Batch ID:</b> W3E2680		<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 05/31/23 14:45		<b>Analyst:</b> mes	
Total Suspended Solids	17		5	mg/l	1	06/01/23	
<b>Metals by EPA 200 Series Methods</b>							
<b>Method:</b> EPA 200.7			<b>Instr:</b> ICP03				
<b>Batch ID:</b> W3F0539		<b>Preparation:</b> EPA 200.2		<b>Prepared:</b> 06/07/23 08:58		<b>Analyst:</b> kvm	
Iron, Total	0.93	0.025	0.030	mg/l	1	06/12/23	
<b>Microbiological Parameters by Standard Methods</b>							
<b>Method:</b> SM 9221B/E			<b>Instr:</b> WB09				
<b>Batch ID:</b> W3E2623		<b>Preparation:</b> _NONE (MICROBIOLOGY)		<b>Prepared:</b> 05/30/23 16:44		<b>Analyst:</b> rea	
Fecal Coliform	ND	18	18	MPN/100mL	10	06/08/23	
Total Coliform	6200	18	18	MPN/100mL	10	06/09/23	
<b>Method:</b> SM 9221F			<b>Instr:</b> WB09				
<b>Batch ID:</b> W3E2623		<b>Preparation:</b> _NONE (MICROBIOLOGY)		<b>Prepared:</b> 05/30/23 16:44		<b>Analyst:</b> rea	
E. coli	ND		18	MPN/100mL	10	06/08/23	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

Project Number: Chiquita Canyon Landfill - IGP

Reported:

07/03/2023 11:26

Project Manager: Lauren Murphy

## Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3E2582 - EPA 300.0</b>											
<b>Blank (W3E2582-BLK1)</b>											
Chloride, Total	ND	0.19	0.50	mg/l							
						<b>Prepared &amp; Analyzed: 05/31/23</b>					
<b>LCS (W3E2582-BS1)</b>											
Chloride, Total	20.7	0.19	0.50	mg/l	20.0		104	90-110			
						<b>Prepared &amp; Analyzed: 05/31/23</b>					
<b>Matrix Spike (W3E2582-MS1)</b>											
Chloride, Total	244	1.9	5.0	mg/l	200	47.3	98	76-118			
						<b>Source: 3E30132-05</b>					
						<b>Prepared: 05/31/23 Analyzed: 06/01/23</b>					
<b>Matrix Spike (W3E2582-MS2)</b>											
Chloride, Total	232	1.9	5.0	mg/l	200	33.5	99	76-118			
						<b>Source: 3E31048-01</b>					
						<b>Prepared: 05/31/23 Analyzed: 06/01/23</b>					
<b>Matrix Spike Dup (W3E2582-MSD1)</b>											
Chloride, Total	244	1.9	5.0	mg/l	200	47.3	98	76-118	0.08	20	
						<b>Source: 3E30132-05</b>					
						<b>Prepared: 05/31/23 Analyzed: 06/01/23</b>					
<b>Matrix Spike Dup (W3E2582-MSD2)</b>											
Chloride, Total	233	1.9	5.0	mg/l	200	33.5	100	76-118	0.06	20	
						<b>Source: 3E31048-01</b>					
						<b>Prepared: 05/31/23 Analyzed: 06/01/23</b>					

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3E2560 - EPA 1664B</b>											
<b>Blank (W3E2560-BLK1)</b>											
Oil & Grease (HEM)	ND	0.6	4.0	mg/l							
						<b>Prepared &amp; Analyzed: 05/31/23</b>					
<b>LCS (W3E2560-BS1)</b>											
Oil & Grease (HEM)	14.9	0.6	4.0	mg/l	16.8		89	78-114			
						<b>Prepared &amp; Analyzed: 05/31/23</b>					
<b>LCS (W3E2560-BS2)</b>											
Oil & Grease (HEM)	3.37	0.6	4.0	mg/l	4.21		80	78-114			J
						<b>Prepared &amp; Analyzed: 05/31/23</b>					
<b>LCS Dup (W3E2560-BSD1)</b>											
Oil & Grease (HEM)	15.2	0.6	4.0	mg/l	16.8		90	78-114	1	18	
						<b>Prepared &amp; Analyzed: 05/31/23</b>					
<b>Batch: W3E2680 - SM 2540D</b>											
<b>Blank (W3E2680-BLK1)</b>											
Total Suspended Solids	ND		5	mg/l							
						<b>Prepared: 05/31/23 Analyzed: 06/01/23</b>					
<b>LCS (W3E2680-BS1)</b>											
Total Suspended Solids	62.4		5	mg/l	58.4		107	90-110			
						<b>Prepared: 05/31/23 Analyzed: 06/01/23</b>					
<b>Duplicate (W3E2680-DUP1)</b>											
Total Suspended Solids	28.0		5	mg/l		30.0			7	10	
						<b>Source: 3E30019-01</b>					
						<b>Prepared: 05/31/23 Analyzed: 06/01/23</b>					
<b>Duplicate (W3E2680-DUP2)</b>											
Total Suspended Solids	16.0		5	mg/l		14.7			8	10	
						<b>Source: 3E30100-03</b>					
						<b>Prepared: 05/31/23 Analyzed: 06/01/23</b>					

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**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3F0539 - EPA 200.7</b>											
<b>Blank (W3F0539-BLK1)</b>					<b>Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Iron, Total	ND	0.025	0.030	mg/l							
<b>LCS (W3F0539-BS1)</b>					<b>Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Iron, Total	0.202	0.025	0.030	mg/l	0.200		101	85-115			
<b>Duplicate (W3F0539-DUP1)</b>					<b>Source: 3E26056-02 Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Iron, Total	4.41	0.025	0.030	mg/l		4.44			0.7	30	
<b>Matrix Spike (W3F0539-MS1)</b>					<b>Source: 3E26056-01 Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Iron, Total	7.19	0.025	0.030	mg/l	0.200	6.16	517	70-130			MS-02
<b>Matrix Spike (W3F0539-MS2)</b>					<b>Source: 3F01057-01 Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Iron, Total	0.256	0.025	0.030	mg/l	0.200	0.0509	103	70-130			
<b>Matrix Spike Dup (W3F0539-MSD1)</b>					<b>Source: 3E26056-01 Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Iron, Total	7.04	0.025	0.030	mg/l	0.200	6.16	441	70-130	2	30	MS-02
<b>Matrix Spike Dup (W3F0539-MSD2)</b>					<b>Source: 3F01057-01 Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Iron, Total	0.255	0.025	0.030	mg/l	0.200	0.0509	102	70-130	0.5	30	

## Quality Control Results

(Continued)

### Microbiological Parameters by Standard Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3E2623 - SM 9221F</b>											
<b>Blank (W3E2623-BLK1)</b>					<b>Prepared: 05/30/23 Analyzed: 06/08/23</b>						
E. coli	ND		1.8	MPN/100m L							
Fecal Coliform	ND	1.8	1.8	MPN/100m L							
Total Coliform	ND	1.8	1.8	MPN/100m L							

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**Project Manager:** Lauren Murphy

## Notes and Definitions

Item	Definition
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
J	Estimated conc. detected <MRL and >MDL.
MS-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

**Work Orders:** 3E30093

**Report Date:** 7/03/2023

**Project:** Chiquita Canyon Landfill - IGP

**Received Date:** 05/30/2023

**Turnaround Time:** Normal

**Phones:** (909) 567-8052

**Fax:**

**Attn:** Lauren Murphy

**P.O. #:**

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Billing Code:**

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Lauren Murphy,

Enclosed are the results of analyses for samples received 5/30/23 with the Chain-of-Custody document. The samples were received in good condition, at 7.0 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Kim G. Tu  
Project Manager



SWT Engineering  
 800-C South Rochester Avenue  
 Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - IGP

**Reported:**  
 07/03/2023 11:28

**Project Manager:** Lauren Murphy

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	3E30093-01	Water	05/30/23 11:35	
Trip Blank	Paul Chang	3E30093-02	Water	05/30/23 00:00	

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Project Number: Chiquita Canyon Landfill - IGP

Reported:  
07/03/2023 11:28

Project Manager: Lauren Murphy

## Sample Results

Sample: South  
3E30093-01 (Water) Sampled: 05/30/23 11:35 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> Calculation				<b>Instr:</b> [CALC]			
<b>Batch ID:</b> [CALC]	<b>Preparation:</b> [CALC]		<b>Prepared:</b> 06/08/23 17:41		<b>Analyst:</b> YMT		
Nitrogen, Total	2.9	0.036	0.10	mg/l	1	06/12/23	
<b>Method:</b> EPA 335.4				<b>Instr:</b> AA01			
<b>Batch ID:</b> W3F0227	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/02/23 17:04		<b>Analyst:</b> ISM		
Cyanide, Total	ND	3.8	5.0	ug/l	1	06/03/23	
<b>Method:</b> EPA 350.1				<b>Instr:</b> AA06			
<b>Batch ID:</b> W3F0251	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/02/23 18:51		<b>Analyst:</b> YMT		
Ammonia as N	0.35	0.017	0.10	mg/l	1	06/05/23	
<b>Method:</b> EPA 351.2				<b>Instr:</b> AA06			
<b>Batch ID:</b> W3F0748	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/08/23 17:41		<b>Analyst:</b> YMT		
TKN	2.7	0.065	0.10	mg/l	1	06/12/23	
<b>Method:</b> EPA 353.2				<b>Instr:</b> AA01			
<b>Batch ID:</b> W3E2686	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 05/31/23 17:04		<b>Analyst:</b> ism		
NO2+NO3 as N	160	36	200	ug/l	1	05/31/23	J
<b>Method:</b> EPA 410.4				<b>Instr:</b> UVVIS04			
<b>Batch ID:</b> W3F0914	<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 06/12/23 12:04		<b>Analyst:</b> cpt		
Chemical Oxygen Demand	100	2.9	5.0	mg/l	1	06/16/23	
<b>Metals by EPA 200 Series Methods</b>							
<b>Method:</b> EPA 200.7				<b>Instr:</b> ICP03			
<b>Batch ID:</b> W3F0539	<b>Preparation:</b> EPA 200.2		<b>Prepared:</b> 06/07/23 08:58		<b>Analyst:</b> kvm		
Arsenic, Total	0.014	0.0060	0.020	mg/l	1	06/12/23	J
Cadmium, Total	ND	0.00057	0.0020	mg/l	1	06/12/23	
Lead, Total	ND	0.0040	0.010	mg/l	1	06/12/23	
Magnesium, Total	25.6	0.0390	0.500	mg/l	1	06/12/23	
Phosphorus, Total	0.080	0.018	0.050	mg/l	1	06/12/23	
Selenium, Total	ND	0.0060	0.030	mg/l	1	06/12/23	
Silver, Total	ND	0.0036	0.0050	mg/l	1	06/12/23	
Zinc, Total	0.0056	0.0018	0.050	mg/l	1	06/12/23	J
<b>Method:</b> EPA 245.1				<b>Instr:</b> HG03			
<b>Batch ID:</b> W3F0407	<b>Preparation:</b> EPA 245.1		<b>Prepared:</b> 06/06/23 09:51		<b>Analyst:</b> KVM		
Mercury, Total	ND	0.037	0.050	ug/l	1	06/08/23	
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>							
<b>Method:</b> EPA 8260B				<b>Instr:</b> GCMS21			
<b>Batch ID:</b> W3F0320	<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 06/05/23 12:12		<b>Analyst:</b> ADM		
Benzene	ND	2.5	20	ug/l	20	06/06/23	M-05
Ethylbenzene	ND	8.6	20	ug/l	20	06/06/23	M-05
m,p-Xylene	ND	7.3	20	ug/l	20	06/06/23	M-05

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**Reported:**  
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**Project Manager:** Lauren Murphy

## Sample Results

(Continued)

Sample: South  
3E30093-01 (Water) Sampled: 05/30/23 11:35 by Paul Chang  
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W3F0320		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 06/05/23 12:12		<b>Analyst:</b> ADM	
o-Xylene	ND	6.4	20	ug/l	20	06/06/23	M-05
Toluene	ND	1.8	20	ug/l	20	06/06/23	M-05
<i>Surrogate(s)</i>							
1,2-Dichloroethane-d4	109%	Conc: 54.5	86-126			06/06/23	
4-Bromofluorobenzene	92%	Conc: 46.2	80-112			06/06/23	
Dibromofluoromethane	117%	Conc: 58.3	89-120			06/06/23	
Toluene-d8	103%	Conc: 51.6	91-111			06/06/23	

## Sample Results

(Continued)

Sample: Trip Blank  
3E30093-02 (Water) Sampled: 05/30/23 0:00 by Paul Chang

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W3F0320		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 06/05/23 12:12		<b>Analyst:</b> ADM	
Benzene	ND	0.13	1.0	ug/l	1	06/06/23	
Ethylbenzene	ND	0.43	1.0	ug/l	1	06/06/23	
m,p-Xylene	ND	0.37	1.0	ug/l	1	06/06/23	
o-Xylene	ND	0.32	1.0	ug/l	1	06/06/23	
Toluene	ND	0.088	1.0	ug/l	1	06/06/23	
<i>Surrogate(s)</i>							
1,2-Dichloroethane-d4	108%	Conc: 54.2	86-126			06/06/23	
4-Bromofluorobenzene	92%	Conc: 45.8	80-112			06/06/23	
Dibromofluoromethane	112%	Conc: 56.1	89-120			06/06/23	
Toluene-d8	103%	Conc: 51.4	91-111			06/06/23	

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Ontario, CA 91761

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**Project Manager:** Lauren Murphy

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W3E2686 - EPA 353.2</b>											
<b>Blank (W3E2686-BLK1)</b> Prepared & Analyzed: 05/31/23											
NO2+NO3 as N	ND	36	200	ug/l							
<b>LCS (W3E2686-BS1)</b> Prepared & Analyzed: 05/31/23											
NO2+NO3 as N	970	36	200	ug/l	1000		97	90-110			
<b>Matrix Spike (W3E2686-MS1)</b> Source: 3E30132-01 Prepared & Analyzed: 05/31/23											
NO2+NO3 as N	8570	36	200	ug/l	2000	6790	89	90-110			MS-01
<b>Matrix Spike (W3E2686-MS2)</b> Source: 3E30132-02 Prepared & Analyzed: 05/31/23											
NO2+NO3 as N	2690	36	200	ug/l	2000	735	98	90-110			
<b>Matrix Spike Dup (W3E2686-MSD1)</b> Source: 3E30132-01 Prepared & Analyzed: 05/31/23											
NO2+NO3 as N	8630	36	200	ug/l	2000	6790	92	90-110	0.7	20	
<b>Matrix Spike Dup (W3E2686-MSD2)</b> Source: 3E30132-02 Prepared & Analyzed: 05/31/23											
NO2+NO3 as N	2710	36	200	ug/l	2000	735	99	90-110	0.7	20	
<b>Batch: W3F0227 - EPA 335.4</b>											
<b>Blank (W3F0227-BLK1)</b> Prepared: 06/02/23 Analyzed: 06/03/23											
Cyanide, Total	ND	3.8	5.0	ug/l							
<b>LCS (W3F0227-BS1)</b> Prepared: 06/02/23 Analyzed: 06/03/23											
Cyanide, Total	106	3.8	5.0	ug/l	100		106	90-110			
<b>Matrix Spike (W3F0227-MS1)</b> Source: 3E30073-01 Prepared: 06/02/23 Analyzed: 06/03/23											
Cyanide, Total	200	3.8	5.0	ug/l	200	ND	100	90-110			
<b>Matrix Spike Dup (W3F0227-MSD1)</b> Source: 3E30073-01 Prepared: 06/02/23 Analyzed: 06/03/23											
Cyanide, Total	201	3.8	5.0	ug/l	200	ND	100	90-110	0.5	20	
<b>Batch: W3F0251 - EPA 350.1</b>											
<b>Blank (W3F0251-BLK1)</b> Prepared: 06/02/23 Analyzed: 06/05/23											
Ammonia as N	ND	0.017	0.10	mg/l							
<b>Blank (W3F0251-BLK2)</b> Prepared: 06/02/23 Analyzed: 06/05/23											
Ammonia as N	ND	0.017	0.10	mg/l							
<b>LCS (W3F0251-BS1)</b> Prepared: 06/02/23 Analyzed: 06/05/23											
Ammonia as N	0.262	0.017	0.10	mg/l	0.250		105	90-110			
<b>LCS (W3F0251-BS2)</b> Prepared: 06/02/23 Analyzed: 06/05/23											
Ammonia as N	0.263	0.017	0.10	mg/l	0.250		105	90-110			
<b>Matrix Spike (W3F0251-MS1)</b> Source: 3E08006-01 Prepared: 06/02/23 Analyzed: 06/05/23											
Ammonia as N	0.267	0.017	0.10	mg/l	0.250	ND	107	90-110			
<b>Matrix Spike (W3F0251-MS2)</b> Source: 3E25007-01 Prepared: 06/02/23 Analyzed: 06/05/23											
Ammonia as N	0.300	0.017	0.10	mg/l	0.250	0.0406	104	90-110			
<b>Matrix Spike Dup (W3F0251-MSD1)</b> Source: 3E08006-01 Prepared: 06/02/23 Analyzed: 06/05/23											
Ammonia as N	0.269	0.017	0.10	mg/l	0.250	ND	108	90-110	0.8	15	
<b>Matrix Spike Dup (W3F0251-MSD2)</b> Source: 3E25007-01 Prepared: 06/02/23 Analyzed: 06/05/23											
Ammonia as N	0.305	0.017	0.10	mg/l	0.250	0.0406	106	90-110	2	15	

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(Continued)

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3F0748 - EPA 351.2</b>											
<b>Blank (W3F0748-BLK1)</b>											
TKN	ND	0.065	0.10	mg/l							
						<b>Prepared: 06/08/23 Analyzed: 06/12/23</b>					
<b>Blank (W3F0748-BLK2)</b>											
TKN	ND	0.065	0.10	mg/l							
						<b>Prepared: 06/08/23 Analyzed: 06/12/23</b>					
<b>LCS (W3F0748-BS1)</b>											
TKN	0.960	0.065	0.10	mg/l	1.00		96	90-110			
						<b>Prepared: 06/08/23 Analyzed: 06/12/23</b>					
<b>LCS (W3F0748-BS2)</b>											
TKN	0.980	0.065	0.10	mg/l	1.00		98	90-110			
						<b>Prepared: 06/08/23 Analyzed: 06/12/23</b>					
<b>Duplicate (W3F0748-DUP1)</b>											
TKN	0.362	0.065	0.10	mg/l		0.351			3	10	
						<b>Source: 3E24069-03 Prepared: 06/08/23 Analyzed: 06/12/23</b>					
<b>Matrix Spike (W3F0748-MS1)</b>											
TKN	0.962	0.065	0.10	mg/l	1.00	ND	96	90-110			
						<b>Source: 3E12021-01 Prepared: 06/08/23 Analyzed: 06/12/23</b>					
<b>Matrix Spike (W3F0748-MS2)</b>											
TKN	2.64	0.065	0.10	mg/l	1.00	1.70	94	90-110			
						<b>Source: 3E24067-01 Prepared: 06/08/23 Analyzed: 06/12/23</b>					
<b>Matrix Spike Dup (W3F0748-MSD1)</b>											
TKN	0.931	0.065	0.10	mg/l	1.00	ND	93	90-110	3	10	
						<b>Source: 3E12021-01 Prepared: 06/08/23 Analyzed: 06/12/23</b>					
<b>Matrix Spike Dup (W3F0748-MSD2)</b>											
TKN	2.82	0.065	0.10	mg/l	1.00	1.70	112	90-110	7	10	MS-01, MS-02
						<b>Source: 3E24067-01 Prepared: 06/08/23 Analyzed: 06/12/23</b>					
<b>Batch: W3F0914 - EPA 410.4</b>											
<b>Blank (W3F0914-BLK1)</b>											
Chemical Oxygen Demand	ND	2.9	5.0	mg/l							
						<b>Prepared: 06/12/23 Analyzed: 06/16/23</b>					
<b>LCS (W3F0914-BS1)</b>											
Chemical Oxygen Demand	1050	2.9	5.0	mg/l	1000		105	90-110			
						<b>Prepared: 06/12/23 Analyzed: 06/16/23</b>					
<b>Duplicate (W3F0914-DUP1)</b>											
Chemical Oxygen Demand	1860	29	50	mg/l		1860			0.5	15	
						<b>Source: 3E25065-01 Prepared: 06/12/23 Analyzed: 06/16/23</b>					
<b>Matrix Spike (W3F0914-MS1)</b>											
Chemical Oxygen Demand	240	12	20	mg/l	200	31.7	104	90-110			
						<b>Source: 3E31089-03 Prepared: 06/12/23 Analyzed: 06/16/23</b>					
<b>Matrix Spike (W3F0914-MS2)</b>											
Chemical Oxygen Demand	2290	12	20	mg/l	2000	162	106	90-110			
						<b>Source: 3D20001-02 Prepared: 06/12/23 Analyzed: 06/19/23</b>					
<b>Matrix Spike Dup (W3F0914-MSD1)</b>											
Chemical Oxygen Demand	235	12	20	mg/l	200	31.7	102	90-110	2	15	
						<b>Source: 3E31089-03 Prepared: 06/12/23 Analyzed: 06/16/23</b>					
<b>Matrix Spike Dup (W3F0914-MSD2)</b>											
Chemical Oxygen Demand	2200	12	20	mg/l	2000	162	102	90-110	4	15	
						<b>Source: 3D20001-02 Prepared: 06/12/23 Analyzed: 06/19/23</b>					

SWT Engineering  
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**Project Number:** Chiquita Canyon Landfill - IGP

**Reported:**  
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**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3F0407 - EPA 245.1</b>											
<b>Blank (W3F0407-BLK1)</b>					<b>Prepared: 06/06/23 Analyzed: 06/08/23</b>						
Mercury, Total	ND	0.037	0.050	ug/l							
<b>LCS (W3F0407-BS1)</b>					<b>Prepared: 06/06/23 Analyzed: 06/08/23</b>						
Mercury, Total	1.09	0.037	0.050	ug/l	1.00		109	85-115			
<b>Matrix Spike (W3F0407-MS1)</b>					<b>Source: 3C28037-03 Prepared: 06/06/23 Analyzed: 06/08/23</b>						
Mercury, Total	1.08	0.037	0.050	ug/l	1.00	ND	108	70-130			
<b>Matrix Spike (W3F0407-MS2)</b>					<b>Source: 3E26048-02 Prepared: 06/06/23 Analyzed: 06/08/23</b>						
Mercury, Total	0.930	0.037	0.050	ug/l	1.00	ND	93	70-130			
<b>Matrix Spike Dup (W3F0407-MSD1)</b>					<b>Source: 3C28037-03 Prepared: 06/06/23 Analyzed: 06/08/23</b>						
Mercury, Total	1.04	0.037	0.050	ug/l	1.00	ND	104	70-130	3	20	
<b>Matrix Spike Dup (W3F0407-MSD2)</b>					<b>Source: 3E26048-02 Prepared: 06/06/23 Analyzed: 06/08/23</b>						
Mercury, Total	0.996	0.037	0.050	ug/l	1.00	ND	100	70-130	7	20	
<b>Batch: W3F0539 - EPA 200.7</b>											
<b>Blank (W3F0539-BLK1)</b>					<b>Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Arsenic, Total	ND	0.0060	0.020	mg/l							
Cadmium, Total	ND	0.00057	0.0020	mg/l							
Lead, Total	ND	0.0040	0.010	mg/l							
Magnesium, Total	ND	0.0390	0.500	mg/l							
Phosphorus, Total	ND	0.018	0.050	mg/l							
Selenium, Total	ND	0.0060	0.030	mg/l							
Silver, Total	ND	0.0036	0.0050	mg/l							
Zinc, Total	ND	0.0018	0.050	mg/l							
<b>LCS (W3F0539-BS1)</b>					<b>Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Arsenic, Total	0.213	0.0060	0.020	mg/l	0.200		107	85-115			
Cadmium, Total	0.197	0.00057	0.0020	mg/l	0.200		98	85-115			
Lead, Total	0.195	0.0040	0.010	mg/l	0.200		98	85-115			
Magnesium, Total	47.9	0.0390	0.500	mg/l	50.2		96	85-115			
Phosphorus, Total	2.08	0.018	0.050	mg/l	2.00		104	85-115			
Selenium, Total	0.212	0.0060	0.030	mg/l	0.200		106	85-115			
Silver, Total	0.195	0.0036	0.0050	mg/l	0.200		97	85-115			
Zinc, Total	0.196	0.0018	0.050	mg/l	0.200		98	85-115			
<b>Duplicate (W3F0539-DUP1)</b>					<b>Source: 3E26056-02 Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Arsenic, Total	0.0857	0.0060	0.020	mg/l		0.0873			2	30	
Cadmium, Total	ND	0.00057	0.0020	mg/l		ND				30	
Lead, Total	ND	0.0040	0.010	mg/l		ND				30	
Magnesium, Total	47.7	0.0390	0.500	mg/l		47.9			0.4	30	
Phosphorus, Total	0.423	0.018	0.050	mg/l		0.422			0.2	30	
Selenium, Total	0.00688	0.0060	0.030	mg/l		ND			200	30	R-03, J
Silver, Total	ND	0.0036	0.0050	mg/l		ND				30	

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**Project Manager:** Lauren Murphy

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3F0539 - EPA 200.7 (Continued)</b>											
<b>Duplicate (W3F0539-DUP1)</b>		<b>Source: 3E26056-02</b>			<b>Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Zinc, Total	0.00627	0.0018	0.050	mg/l		0.00626			0.2	30	J
<b>Matrix Spike (W3F0539-MS1)</b>		<b>Source: 3E26056-01</b>			<b>Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Arsenic, Total	0.640	0.0060	0.020	mg/l	0.200	0.421	109	70-130			
Cadmium, Total	0.192	0.00057	0.0020	mg/l	0.200	ND	96	70-130			
Lead, Total	0.191	0.0040	0.010	mg/l	0.200	ND	96	70-130			
Magnesium, Total	87.1	0.0390	0.500	mg/l	50.2	40.3	93	75-125			
Phosphorus, Total	2.54	0.018	0.050	mg/l	2.00	0.466	104	75-125			
Selenium, Total	0.217	0.0060	0.030	mg/l	0.200	0.00924	104	70-130			
Silver, Total	0.204	0.0036	0.0050	mg/l	0.200	ND	102	70-130			
Zinc, Total	0.212	0.0018	0.050	mg/l	0.200	0.0153	99	70-130			
<b>Matrix Spike (W3F0539-MS2)</b>		<b>Source: 3F01057-01</b>			<b>Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Arsenic, Total	0.220	0.0060	0.020	mg/l	0.200	ND	110	70-130			
Cadmium, Total	0.193	0.00057	0.0020	mg/l	0.200	ND	96	70-130			
Lead, Total	0.204	0.0040	0.010	mg/l	0.200	0.00875	97	70-130			
Magnesium, Total	53.4	0.0390	0.500	mg/l	50.2	5.40	96	75-125			
Phosphorus, Total	2.32	0.018	0.050	mg/l	2.00	0.189	106	75-125			
Selenium, Total	0.200	0.0060	0.030	mg/l	0.200	ND	100	70-130			
Silver, Total	0.184	0.0036	0.0050	mg/l	0.200	ND	92	70-130			
Zinc, Total	0.263	0.0018	0.050	mg/l	0.200	0.0565	103	70-130			
<b>Matrix Spike Dup (W3F0539-MSD1)</b>		<b>Source: 3E26056-01</b>			<b>Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Arsenic, Total	0.646	0.0060	0.020	mg/l	0.200	0.421	112	70-130	1	30	
Cadmium, Total	0.193	0.00057	0.0020	mg/l	0.200	ND	97	70-130	0.7	30	
Lead, Total	0.191	0.0040	0.010	mg/l	0.200	ND	96	70-130	0.09	30	
Magnesium, Total	88.1	0.0390	0.500	mg/l	50.2	40.3	95	75-125	1	30	
Phosphorus, Total	2.56	0.018	0.050	mg/l	2.00	0.466	105	75-125	0.8	30	
Selenium, Total	0.219	0.0060	0.030	mg/l	0.200	0.00924	105	70-130	1	30	
Silver, Total	0.175	0.0036	0.0050	mg/l	0.200	ND	88	70-130	15	30	
Zinc, Total	0.213	0.0018	0.050	mg/l	0.200	0.0153	99	70-130	0.5	30	
<b>Matrix Spike Dup (W3F0539-MSD2)</b>		<b>Source: 3F01057-01</b>			<b>Prepared: 06/07/23 Analyzed: 06/12/23</b>						
Arsenic, Total	0.222	0.0060	0.020	mg/l	0.200	ND	111	70-130	1	30	
Cadmium, Total	0.192	0.00057	0.0020	mg/l	0.200	ND	96	70-130	0.2	30	
Lead, Total	0.203	0.0040	0.010	mg/l	0.200	0.00875	97	70-130	0.3	30	
Magnesium, Total	53.2	0.0390	0.500	mg/l	50.2	5.40	95	75-125	0.5	30	
Phosphorus, Total	2.31	0.018	0.050	mg/l	2.00	0.189	106	75-125	0.4	30	
Selenium, Total	0.201	0.0060	0.030	mg/l	0.200	ND	100	70-130	0.4	30	
Silver, Total	0.198	0.0036	0.0050	mg/l	0.200	ND	99	70-130	7	30	
Zinc, Total	0.262	0.0018	0.050	mg/l	0.200	0.0565	103	70-130	0.5	30	

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**Project Number:** Chiquita Canyon Landfill - IGP

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**Project Manager:** Lauren Murphy

(Continued)

## Quality Control Results

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W3F0320 - EPA 8260B</b>											
<b>Blank (W3F0320-BLK1)</b>					<b>Prepared &amp; Analyzed: 06/05/23</b>						
Benzene	ND	0.13	1.0	ug/l							
Ethylbenzene	ND	0.43	1.0	ug/l							
m,p-Xylene	ND	0.37	1.0	ug/l							
o-Xylene	ND	0.32	1.0	ug/l							
Toluene	ND	0.088	1.0	ug/l							
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	56.3			ug/l	50.0		113	86-126			
4-Bromofluorobenzene	46.9			ug/l	50.0		94	80-112			
Dibromofluoromethane	58.4			ug/l	50.0		117	89-120			
Toluene-d8	52.5			ug/l	50.0		105	91-111			
<b>LCS (W3F0320-BS1)</b>					<b>Prepared &amp; Analyzed: 06/05/23</b>						
Benzene	23.7	0.13	1.0	ug/l	20.0		119	80-117			Q-08
Ethylbenzene	23.5	0.43	1.0	ug/l	20.0		118	76-131			
m,p-Xylene	23.8	0.37	1.0	ug/l	20.0		119	80-126			
o-Xylene	23.7	0.32	1.0	ug/l	20.0		119	84-121			
Toluene	22.5	0.088	1.0	ug/l	20.0		113	82-122			
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	49.9			ug/l	50.0		100	86-126			
4-Bromofluorobenzene	54.1			ug/l	50.0		108	80-112			
Dibromofluoromethane	49.1			ug/l	50.0		98	89-120			
Toluene-d8	49.3			ug/l	50.0		99	91-111			
<b>LCS Dup (W3F0320-BSD1)</b>					<b>Prepared &amp; Analyzed: 06/05/23</b>						
Benzene	23.8	0.13	1.0	ug/l	20.0		119	80-117	0.06	25	Q-08
Ethylbenzene	23.1	0.43	1.0	ug/l	20.0		115	76-131	2	25	
m,p-Xylene	24.0	0.37	1.0	ug/l	20.0		120	80-126	0.7	25	
o-Xylene	23.5	0.32	1.0	ug/l	20.0		118	84-121	0.9	25	
Toluene	22.5	0.088	1.0	ug/l	20.0		112	82-122	0.3	25	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	49.1			ug/l	50.0		98	86-126			
4-Bromofluorobenzene	55.0			ug/l	50.0		110	80-112			
Dibromofluoromethane	49.9			ug/l	50.0		100	89-120			
Toluene-d8	50.3			ug/l	50.0		101	91-111			

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**Project Number:** Chiquita Canyon Landfill - IGP

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**Project Manager:** Lauren Murphy

## Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
MS-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
R-03	The RPD is not applicable for result below the reporting limit (either ND or J value).
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



**Weck Laboratories**

3E30093  
Chain of Custody

Pg 1 of 1

Report To			Invoice To			Analysis Request													TAT																									
Company: Waste Connections, Inc.			Contact: Chiquita Canyon Landfill																Standard																									
Attn: Lauren Kahle and Randal Bodnar			Attn: Maribel Bolanos																10 Days		Rush																							
Phone/Fax: 360-207-3465			Address: 29201 Henry Mayo Dr. Castaic, CA 91384																<input checked="" type="radio"/>		<input type="radio"/>																							
Email Address: Lauren.Kahle@WasteConnections.com Randal.Bodnar@Waste.Connections.com			Phone/Fax: (661) 257-3655																Parameters for Contaminated Soils WDR R4-2011-0052																									
Additionally Report To																																												
Ikms@swteng.com / 909-567-8052			Sampler Name: Paul Chang			Total Number of Containers per Sample ID													Notes																									
aav@swteng.com / 415-717-0910																																												
pchang@changenvironmental.com						Ammonia (SM 4500)																																						
Project Information			Container																		Preservative			Matrix																				
Project ID: Chiquita Canyon Landfill - WDR			40ml Vial			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
Project Number:			Poly			COD (SM 5220 C)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)					
Sample Identification			Sample Collection			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
			Date			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
East						Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
South			5/30/23 11:35			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
Relinquished by			Received by			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
Date			Time			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
5/30/23			13:19			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
DDW Write On EDT Transmission?			State System Number:			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
<input type="radio"/> Yes <input checked="" type="radio"/> No						Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
CA Geotracker EDF Report?			Global ID:			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
<input type="radio"/> Yes <input checked="" type="radio"/> No						Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
EDF to (Email Address):			Travel and Site Time:			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
			Mileage:			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		
			Misc. Supplies:			Ammonia (SM 5220 C)			Cyanide, Total (SM 4500 CN C, D, or E)			Nitrate + Nitrite Nitrogen (SM 4500-N03-E)			Phosphorous, Total (SM 4500-P B+E)			Arsenic, Total (EPA 200.8)			Cadmium, Total (EPA 200.8)			Lead, Total (EPA 200.8)			Magnesium, Total (EPA 200.7)			Mercury, Total (EPA 245.1)			Selenium, Total (EPA 200.8)			Silver, Total (EPA 200.8)			Zinc, Total (EPA 200.8)			BTEX (EPA 8260)		



**Weck Laboratories**

3E30093  
**Chain of Custody**

Pg 1 of 1

Report To			Invoice To													Analysis Request						TAT			
Company: <b>Waste Connections, Inc.</b>			Contact: <b>Chiquita Canyon Landfill</b>																			Standard			
Attn: <b>Lauren Kahle and Randal Bodnar</b>			Attn: <b>Maribel Bolanos</b>																			Rush			
Phone/Fax: <b>360-207-3465</b>			Address: <b>29201 Henry Mayo Dr. Castaic, CA 91384</b>																			10 Days			
Email Address: <b>Lauren.Kahle@WasteConnections.com Randal.Bodnar@WasteConnections.com</b>			Phone/Fax: <b>(661) 257-3655</b>																			● ○			
Additionally Report To																									
Project Information			Sampler Name: <i>Paul Chang</i>													Total Number of Containers per Sample ID									
Project ID: <b>Chiquita Canyon Landfill - IGP</b>			Container			Preservative				Matrix															
Project Number:			40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other										
Sample Identification			Sample Collection																						
			Date	Time																					
<del>East</del>					X	X	X	X	X		X	X	X			6	TSS (SM 2540-D)	O&G (EPA 1664A)	Fe (EPA 200.7)	Chloride (EPA 300.0)	Coliform Bacteria, Total (EPA 9221 B, C, or E)	E coli (SM 9221F)	Notes		
South			5/30/23	11:35	X	X	X	X	X		X	X	X			6	X	X	X	X	X	X	Field pH: 7.65		
Relinquished by			Received by													Date		Time		DDW Write On EDT Transmission? <input type="radio"/> Yes <input checked="" type="radio"/> No					
<i>[Signature]</i>			<i>[Signature]</i>													5/30/23		1:09		State System Number: _____					
																				If "Y" please enter the Source Number(s) in the column above					
																				CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No					
																				Global ID: _____ Sampling Company Log Code: _____					
																				EDF to (Email Address): _____					
																				Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____					

# Sample Receipt Checklist

Weck WKO: 3E30093  
 WKO Logged by: Lester Abad  
 Samples Checked by: Lester Abad

Date/Time Received: 05/30/23 @ 13:09  
 # of Samples: 01  
 Delivered by: Client

Task	Yes	No	N/A	Comments	
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Receipt Information	Sample Temperature	7°C			
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)	WET			
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sample Preservation Verification?	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <6mm/Pea size?
	pH verified upon receipt?				pH paper Lot#
	Metals <2; H2SO4 pres. tests <2; 522<4; TOC <2; 508.1, 525.2<2; 6710B<2; 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Free Chlorine Tested <0.1 (Organics Analyses)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cl Test Strip Lot#
	O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
	pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading: Acid Lot#
					Amt added:
	Project Manager notified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PM Comments

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Sample Receipt Checklist Prepared by:

Signature: Lester Abad

Date: 05/30/23

**Work Orders:** 4A18010

**Project:** Chiquita Canyon Landfill

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Report Date:** 2/26/2024  
**Received Date:** 01/17/2024  
**Turnaround Time:** Normal  
**Phones:** (909) 390-1328  
**Fax:**  
**P.O. #:**  
**Billing Code:**

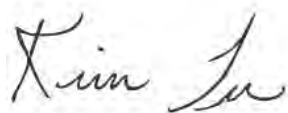
DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Maribel Bolanos,

Enclosed are the results of analyses for samples received 1/17/24 with the Chain-of-Custody document. The samples were received in good condition, at 2.0 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Kim G. Tu  
Project Manager



SWT Engineering  
 800-C South Rochester Avenue  
 Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill

**Reported:**  
 02/26/2024 15:55

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	4A18010-01	Water	01/17/24 13:45	

## Analyses Accreditation Summary

Analyte	CAS #	Not By ELAP-CA	Not By NELAP	Not ANAB ISO 17025
<b>SM 9221B/E in Water</b>				
Total Coliform			✓	
Fecal Coliform			✓	
<b>SM 9221F in Water</b>				
E. coli			✓	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

Project Number: Chiquita Canyon Landfill

Reported:  
02/26/2024 15:55

## Sample Results

Sample: South

Sampled: 01/17/24 13:45 by Paul Chang

4A18010-01 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Anions by IC, EPA Method 300.0</b>							
<b>Method:</b> EPA 300.0				<b>Instr:</b> LC12			
<b>Batch ID:</b> W4B0108		<b>Preparation:</b> _NONE (LC)		<b>Prepared:</b> 02/02/24 09:41		<b>Analyst:</b> CLL	
Chloride, Total	260	1.9	5.0	mg/l	10	02/02/24	M-05
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> EPA 1664B				<b>Instr:</b> SPE15			
<b>Batch ID:</b> W4A1572		<b>Preparation:</b> EPA 1664		<b>Prepared:</b> 01/19/24 08:02		<b>Analyst:</b> jam	
Oil & Grease (HEM)	1.0	0.6	4.0	mg/l	1	01/19/24	J
<b>Method:</b> SM 2540D				<b>Instr:</b> OVEN15			
<b>Batch ID:</b> W4A1595		<b>Preparation:</b> _NONE (WETCHEM)		<b>Prepared:</b> 01/19/24 09:40		<b>Analyst:</b> kac	
Total Suspended Solids	31		5	mg/l	1	01/19/24	
<b>Metals by EPA 200 Series Methods</b>							
<b>Method:</b> EPA 200.7				<b>Instr:</b> ICP03			
<b>Batch ID:</b> W4A1861		<b>Preparation:</b> EPA 200.2		<b>Prepared:</b> 01/23/24 15:32		<b>Analyst:</b> kvm	
Iron, Total	0.49	0.0026	0.030	mg/l	1	01/26/24	
<b>Microbiological Parameters by Standard Methods</b>							
<b>Method:</b> SM 9221B/E				<b>Instr:</b> WB02			
<b>Batch ID:</b> W4A1532		<b>Preparation:</b> _NONE (MICROBIOLOGY)		<b>Prepared:</b> 01/17/24 19:23		<b>Analyst:</b> slh	
Fecal Coliform	3500	18	18	MPN/100mL	10	02/07/24	
Total Coliform	92000	18	18	MPN/100mL	10	02/08/24	
<b>Method:</b> SM 9221F				<b>Instr:</b> WB02			
<b>Batch ID:</b> W4A1532		<b>Preparation:</b> _NONE (MICROBIOLOGY)		<b>Prepared:</b> 01/17/24 19:23		<b>Analyst:</b> slh	
E. coli	2400	18	18	MPN/100mL	10	02/07/24	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

Project Number: Chiquita Canyon Landfill

Reported:  
02/26/2024 15:55

## Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4B0108 - EPA 300.0</b>											
<b>Blank (W4B0108-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/02/24</b>						
Chloride, Total	ND	0.19	0.50	mg/l							
<b>LCS (W4B0108-BS1)</b>					<b>Prepared &amp; Analyzed: 02/02/24</b>						
Chloride, Total	21.0	0.19	0.50	mg/l	20.0		105	90-110			
<b>Matrix Spike (W4B0108-MS1)</b>					<b>Prepared &amp; Analyzed: 02/02/24</b>						
Chloride, Total	221	1.9	5.0	mg/l	200	4.64	108	80-118			
<b>Matrix Spike (W4B0108-MS2)</b>					<b>Prepared &amp; Analyzed: 02/02/24</b>						
Chloride, Total	295	1.9	5.0	mg/l	200	85.7	105	80-118			
<b>Matrix Spike Dup (W4B0108-MSD1)</b>					<b>Prepared &amp; Analyzed: 02/02/24</b>						
Chloride, Total	221	1.9	5.0	mg/l	200	4.64	108	80-118	0.05	20	
<b>Matrix Spike Dup (W4B0108-MSD2)</b>					<b>Prepared &amp; Analyzed: 02/02/24</b>						
Chloride, Total	297	1.9	5.0	mg/l	200	85.7	106	80-118	0.7	20	

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1572 - EPA 1664B</b>											
<b>Blank (W4A1572-BLK1)</b>					<b>Prepared &amp; Analyzed: 01/19/24</b>						
Oil & Grease (HEM)	ND	0.6	4.0	mg/l							
<b>LCS (W4A1572-BS1)</b>					<b>Prepared &amp; Analyzed: 01/19/24</b>						
Oil & Grease (HEM)	15.3	0.6	4.0	mg/l	16.8		91	78-114			
<b>LCS Dup (W4A1572-BSD1)</b>					<b>Prepared &amp; Analyzed: 01/19/24</b>						
Oil & Grease (HEM)	15.7	0.6	4.0	mg/l	16.8		93	78-114	3	18	
<b>Batch: W4A1595 - SM 2540D</b>											
<b>Blank (W4A1595-BLK1)</b>					<b>Prepared &amp; Analyzed: 01/19/24</b>						
Total Suspended Solids	ND		5	mg/l							
<b>LCS (W4A1595-BS1)</b>					<b>Prepared &amp; Analyzed: 01/19/24</b>						
Total Suspended Solids	67.5		5	mg/l	61.8		109	90-110			
<b>Duplicate (W4A1595-DUP1)</b>					<b>Prepared &amp; Analyzed: 01/19/24</b>						
Total Suspended Solids	813		5	mg/l		800			2	10	
<b>Duplicate (W4A1595-DUP2)</b>					<b>Prepared &amp; Analyzed: 01/19/24</b>						
Total Suspended Solids	4.00		5	mg/l		3.80			5	10	J

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

Project Number: Chiquita Canyon Landfill

Reported:  
02/26/2024 15:55

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1861 - EPA 200.7</b>											
<b>Blank (W4A1861-BLK1)</b>					<b>Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Iron, Total	ND	0.0026	0.030	mg/l							
<b>LCS (W4A1861-BS1)</b>					<b>Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Iron, Total	0.214	0.0026	0.030	mg/l	0.200		107	85-115			
<b>Matrix Spike (W4A1861-MS1)</b>					<b>Source: 4A18010-01 Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Iron, Total	0.757	0.0026	0.030	mg/l	0.200	0.489	134	70-130			MS-02
<b>Matrix Spike (W4A1861-MS2)</b>					<b>Source: 4A22070-07 Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Iron, Total	4.77	0.0026	0.030	mg/l	0.200	4.24	260	70-130			MS-02
<b>Matrix Spike Dup (W4A1861-MSD1)</b>					<b>Source: 4A18010-01 Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Iron, Total	0.754	0.0026	0.030	mg/l	0.200	0.489	132	70-130	0.4	30	MS-02
<b>Matrix Spike Dup (W4A1861-MSD2)</b>					<b>Source: 4A22070-07 Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Iron, Total	4.99	0.0026	0.030	mg/l	0.200	4.24	373	70-130	5	30	MS-02

## Quality Control Results

(Continued)

### Microbiological Parameters by Standard Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1532 - SM 9221F</b>											
<b>Blank (W4A1532-BLK1)</b>					<b>Prepared: 01/17/24 Analyzed: 02/07/24</b>						
E. coli	ND	1.8	1.8	MPN/100m L							
Fecal Coliform	ND	1.8	1.8	MPN/100m L							
Total Coliform	ND	1.8	1.8	MPN/100m L							

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill

**Reported:**  
02/26/2024 15:55

## Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

**Work Orders:** 4A18010

**Project:** Chiquita Canyon Landfill

**Attn:** SWT Engineering

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Report Date:** 2/26/2024

**Received Date:** 01/17/2024

**Turnaround Time:** Normal

**Phones:** (909) 390-1328

**Fax:**

**P.O. #:**

**Billing Code:**

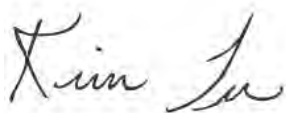
DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear SWT Engineering,

Enclosed are the results of analyses for samples received 1/17/24 with the Chain-of-Custody document. The samples were received in good condition, at 2.0 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Kim G. Tu  
Project Manager



SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill

**Reported:**  
02/26/2024 15:57

**Project Manager:** SWT Engineering

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	4A18010-01	Water	01/17/24 13:45	
Travel Blank	Paul Chang	4A18010-02	Water	01/17/24 00:00	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill  
**Project Manager:** SWT Engineering

**Reported:**  
02/26/2024 15:57

## Sample Results

Sample: South

Sampled: 01/17/24 13:45 by Paul Chang

4A18010-01 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

<b>Method:</b> EPA 335.4				<b>Instr:</b> AA01			
<b>Batch ID:</b> W4A1775	<b>Preparation:</b> _NONE (WETCHEM)			<b>Prepared:</b> 01/23/24 09:00		<b>Analyst:</b> ISM	
Cyanide, Total	ND	1.5	5.0	ug/l	1	01/24/24	
<b>Method:</b> EPA 350.1				<b>Instr:</b> AA06			
<b>Batch ID:</b> W4A1930	<b>Preparation:</b> _NONE (WETCHEM)			<b>Prepared:</b> 01/24/24 09:40		<b>Analyst:</b> YMT	
Ammonia as N	2.8	0.17	1.0	mg/l	10	01/25/24	
<b>Method:</b> EPA 353.2				<b>Instr:</b> AA01			
<b>Batch ID:</b> W4A1561	<b>Preparation:</b> _NONE (WETCHEM)			<b>Prepared:</b> 01/18/24 16:23		<b>Analyst:</b> ISM	
NO2+NO3 as N	ND	36	200	ug/l	1	01/18/24	
<b>Method:</b> EPA 410.4				<b>Instr:</b> UVVIS04			
<b>Batch ID:</b> W4A1600	<b>Preparation:</b> _NONE (WETCHEM)			<b>Prepared:</b> 01/19/24 09:44		<b>Analyst:</b> UVVIS04	
Chemical Oxygen Demand	280	2.9	5.0	mg/l	1	01/19/24	

### Metals by EPA 200 Series Methods

<b>Method:</b> EPA 200.7				<b>Instr:</b> ICP03			
<b>Batch ID:</b> W4A1861	<b>Preparation:</b> EPA 200.2			<b>Prepared:</b> 01/23/24 15:32		<b>Analyst:</b> kvm	
Magnesium, Total	24.2	0.0148	0.500	mg/l	1	01/26/24	
Phosphorus, Total	0.41	0.018	0.050	mg/l	1	01/26/24	
<b>Method:</b> EPA 200.8				<b>Instr:</b> ICPMS06			
<b>Batch ID:</b> W4A1863	<b>Preparation:</b> EPA 200.2			<b>Prepared:</b> 01/24/24 12:00		<b>Analyst:</b> tyc	
Arsenic, Total	14	0.074	0.40	ug/l	1	01/25/24	
Cadmium, Total	0.12	0.042	0.20	ug/l	1	01/25/24	J
Lead, Total	2.5	0.083	0.20	ug/l	1	01/25/24	
Selenium, Total	2.3	0.067	0.40	ug/l	1	01/25/24	
Silver, Total	0.069	0.027	0.20	ug/l	1	01/25/24	J
Zinc, Total	14	1.7	10	ug/l	1	01/25/24	
<b>Method:</b> EPA 245.1				<b>Instr:</b> HG03			
<b>Batch ID:</b> W4A1933	<b>Preparation:</b> EPA 245.1			<b>Prepared:</b> 01/24/24 09:37		<b>Analyst:</b> kjo	
Mercury, Total	ND	0.037	0.050	ug/l	1	01/26/24	

### Volatile Organic Compounds by P&T and GC/MS

<b>Method:</b> EPA 8260B				<b>Instr:</b> GCMS21			
<b>Batch ID:</b> W4A1730	<b>Preparation:</b> EPA 5030B			<b>Prepared:</b> 01/22/24 15:10		<b>Analyst:</b> ADM	
Benzene	ND	0.13	1.0	ug/l	1	01/22/24	
Ethylbenzene	ND	0.43	1.0	ug/l	1	01/22/24	
m,p-Xylene	ND	0.37	1.0	ug/l	1	01/22/24	
o-Xylene	ND	0.32	1.0	ug/l	1	01/22/24	
Toluene	ND	0.088	1.0	ug/l	1	01/22/24	

Surrogate(s)

4A18010

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SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill

**Reported:**  
02/26/2024 15:57

**Project Manager:** SWT Engineering

## Sample Results

(Continued)

Sample: South

Sampled: 01/17/24 13:45 by Paul Chang

4A18010-01 (Water)

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W4A1730		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 01/22/24 15:10		<b>Analyst:</b> ADM	
1,2-Dichloroethane-d4	103%	Conc: 51.4	86-126			01/22/24	
4-Bromofluorobenzene	98%	Conc: 49.1	80-112			01/22/24	
Dibromofluoromethane	102%	Conc: 51.0	89-120			01/22/24	
Toluene-d8	102%	Conc: 51.2	91-111			01/22/24	

## Sample Results

(Continued)

Sample: Travel Blank

Sampled: 01/17/24 0:00 by Paul Chang

4A18010-02 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>							
<b>Method:</b> EPA 8260B			<b>Instr:</b> GCMS21				
<b>Batch ID:</b> W4A1730		<b>Preparation:</b> EPA 5030B		<b>Prepared:</b> 01/22/24 15:10		<b>Analyst:</b> ADM	
Benzene	ND	0.13	1.0	ug/l	1	01/22/24	
Ethylbenzene	ND	0.43	1.0	ug/l	1	01/22/24	
m,p-Xylene	ND	0.37	1.0	ug/l	1	01/22/24	
o-Xylene	ND	0.32	1.0	ug/l	1	01/22/24	
Toluene	ND	0.088	1.0	ug/l	1	01/22/24	
<i>Surrogate(s)</i>							
1,2-Dichloroethane-d4	104%	Conc: 52.2	86-126			01/22/24	
4-Bromofluorobenzene	97%	Conc: 48.6	80-112			01/22/24	
Dibromofluoromethane	101%	Conc: 50.5	89-120			01/22/24	
Toluene-d8	105%	Conc: 52.7	91-111			01/22/24	

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**Project Manager:** SWT Engineering

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## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
<b>Batch: W4A1561 - EPA 353.2</b>											
<b>Blank (W4A1561-BLK1)</b> Prepared & Analyzed: 01/18/24											
NO2+NO3 as N	ND	36	200	ug/l							
<b>LCS (W4A1561-BS1)</b> Prepared & Analyzed: 01/18/24											
NO2+NO3 as N	1020	36	200	ug/l	1000		102	90-110			
<b>Matrix Spike (W4A1561-MS1)</b> Source: 3L01010-04 Prepared & Analyzed: 01/18/24											
NO2+NO3 as N	4990	36	200	ug/l	2000	2930	103	90-110			
<b>Matrix Spike Dup (W4A1561-MSD1)</b> Source: 3L01010-04 Prepared & Analyzed: 01/18/24											
NO2+NO3 as N	4990	36	200	ug/l	2000	2930	103	90-110	0	20	
<b>Batch: W4A1600 - EPA 410.4</b>											
<b>Blank (W4A1600-BLK1)</b> Prepared & Analyzed: 01/19/24											
Chemical Oxygen Demand	ND	2.9	5.0	mg/l							
<b>LCS (W4A1600-BS1)</b> Prepared & Analyzed: 01/19/24											
Chemical Oxygen Demand	103	2.9	5.0	mg/l	100		103	90-110			
<b>Duplicate (W4A1600-DUP1)</b> Source: 4A19018-01 Prepared & Analyzed: 01/19/24											
Chemical Oxygen Demand	6060	58	100	mg/l		5850			4	15	
<b>Matrix Spike (W4A1600-MS1)</b> Source: 4A18061-01 Prepared & Analyzed: 01/19/24											
Chemical Oxygen Demand	2350	12	20	mg/l	2000	397	97	90-110			
<b>Matrix Spike Dup (W4A1600-MSD1)</b> Source: 4A18061-01 Prepared & Analyzed: 01/19/24											
Chemical Oxygen Demand	2440	12	20	mg/l	2000	397	102	90-110	4	15	
<b>Batch: W4A1775 - EPA 335.4</b>											
<b>Blank (W4A1775-BLK1)</b> Prepared: 01/23/24 Analyzed: 01/24/24											
Cyanide, Total	ND	1.5	5.0	ug/l							
<b>LCS (W4A1775-BS1)</b> Prepared: 01/23/24 Analyzed: 01/24/24											
Cyanide, Total	90.1	1.5	5.0	ug/l	100		90	90-110			
<b>Matrix Spike (W4A1775-MS1)</b> Source: 4A18029-01 Prepared: 01/23/24 Analyzed: 01/24/24											
Cyanide, Total	184	1.5	5.0	ug/l	200	ND	92	90-110			
<b>Matrix Spike Dup (W4A1775-MSD1)</b> Source: 4A18029-01 Prepared: 01/23/24 Analyzed: 01/24/24											
Cyanide, Total	185	1.5	5.0	ug/l	200	ND	92	90-110	0.5	20	
<b>Batch: W4A1930 - EPA 350.1</b>											
<b>Blank (W4A1930-BLK1)</b> Prepared: 01/24/24 Analyzed: 01/25/24											
Ammonia as N	ND	0.017	0.10	mg/l							
<b>Blank (W4A1930-BLK2)</b> Prepared: 01/24/24 Analyzed: 01/25/24											
Ammonia as N	ND	0.017	0.10	mg/l							
<b>LCS (W4A1930-BS1)</b> Prepared: 01/24/24 Analyzed: 01/25/24											
Ammonia as N	0.260	0.017	0.10	mg/l	0.250		104	90-110			
<b>LCS (W4A1930-BS2)</b> Prepared: 01/24/24 Analyzed: 01/25/24											
Ammonia as N	0.261	0.017	0.10	mg/l	0.250		104	90-110			
<b>Matrix Spike (W4A1930-MS1)</b> Source: 4A22130-03 Prepared: 01/24/24 Analyzed: 01/25/24											

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**Project Manager:** SWT Engineering

## Quality Control Results

(Continued)

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1930 - EPA 350.1 (Continued)</b>											
<b>Matrix Spike (W4A1930-MS1)</b>											
Ammonia as N	0.453	0.017	0.10	mg/l	0.250	0.202	101	90-110			
<b>Source: 4A22130-03      Prepared: 01/24/24      Analyzed: 01/25/24</b>											
<b>Matrix Spike (W4A1930-MS2)</b>											
Ammonia as N	0.330	0.017	0.10	mg/l	0.250	0.0724	103	90-110			
<b>Source: 4A23158-13      Prepared: 01/24/24      Analyzed: 01/25/24</b>											
<b>Matrix Spike Dup (W4A1930-MSD1)</b>											
Ammonia as N	0.449	0.017	0.10	mg/l	0.250	0.202	99	90-110	0.9	15	
<b>Source: 4A22130-03      Prepared: 01/24/24      Analyzed: 01/25/24</b>											
<b>Matrix Spike Dup (W4A1930-MSD2)</b>											
Ammonia as N	0.329	0.017	0.10	mg/l	0.250	0.0724	103	90-110	0.5	15	
<b>Source: 4A23158-13      Prepared: 01/24/24      Analyzed: 01/25/24</b>											

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## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1861 - EPA 200.7</b>											
<b>Blank (W4A1861-BLK1)</b>					<b>Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Magnesium, Total	ND	0.0148	0.500	mg/l							
Phosphorus, Total	ND	0.018	0.050	mg/l							
<b>LCS (W4A1861-BS1)</b>					<b>Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Magnesium, Total	49.3	0.0148	0.500	mg/l	50.2		98	85-115			
Phosphorus, Total	2.19	0.018	0.050	mg/l	2.00		109	85-115			
<b>Matrix Spike (W4A1861-MS1)</b>					<b>Source: 4A18010-01 Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Magnesium, Total	74.1	0.0148	0.500	mg/l	50.2	24.2	99	70-130			
Phosphorus, Total	2.60	0.018	0.050	mg/l	2.00	0.408	110	70-130			
<b>Matrix Spike (W4A1861-MS2)</b>					<b>Source: 4A22070-07 Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Magnesium, Total	59.1	0.0148	0.500	mg/l	50.2	9.49	99	70-130			
Phosphorus, Total	2.72	0.018	0.050	mg/l	2.00	0.539	109	70-130			
<b>Matrix Spike Dup (W4A1861-MSD1)</b>					<b>Source: 4A18010-01 Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Magnesium, Total	75.1	0.0148	0.500	mg/l	50.2	24.2	101	70-130	1	30	
Phosphorus, Total	2.64	0.018	0.050	mg/l	2.00	0.408	112	70-130	2	30	
<b>Matrix Spike Dup (W4A1861-MSD2)</b>					<b>Source: 4A22070-07 Prepared: 01/23/24 Analyzed: 01/26/24</b>						
Magnesium, Total	59.3	0.0148	0.500	mg/l	50.2	9.49	99	70-130	0.3	30	
Phosphorus, Total	2.73	0.018	0.050	mg/l	2.00	0.539	110	70-130	0.4	30	
<b>Batch: W4A1863 - EPA 200.8</b>											
<b>Blank (W4A1863-BLK1)</b>					<b>Prepared: 01/24/24 Analyzed: 01/25/24</b>						
Arsenic, Total	ND	0.074	0.40	ug/l							
Cadmium, Total	ND	0.042	0.20	ug/l							
Lead, Total	ND	0.083	0.20	ug/l							
Selenium, Total	ND	0.067	0.40	ug/l							
Silver, Total	ND	0.027	0.20	ug/l							
Zinc, Total	ND	1.7	10	ug/l							
<b>LCS (W4A1863-BS1)</b>					<b>Prepared: 01/24/24 Analyzed: 01/25/24</b>						
Arsenic, Total	52.5	0.074	0.40	ug/l	50.0		105	85-115			
Cadmium, Total	50.2	0.042	0.20	ug/l	50.0		100	85-115			
Lead, Total	51.0	0.083	0.20	ug/l	50.0		102	85-115			
Selenium, Total	50.6	0.067	0.40	ug/l	50.0		101	85-115			
Silver, Total	51.5	0.027	0.20	ug/l	50.0		103	85-115			
Zinc, Total	53.5	1.7	10	ug/l	50.0		107	85-115			
<b>Matrix Spike (W4A1863-MS1)</b>					<b>Source: 4A22067-01 Prepared: 01/24/24 Analyzed: 01/25/24</b>						
Arsenic, Total	52.4	0.074	0.40	ug/l	50.0	1.59	101	70-130			
Cadmium, Total	51.3	0.042	0.20	ug/l	50.0	1.14	100	70-130			
Lead, Total	135	0.083	0.20	ug/l	50.0	83.9	103	70-130			
Selenium, Total	49.9	0.067	0.40	ug/l	50.0	0.215	99	70-130			
Silver, Total	51.3	0.027	0.20	ug/l	50.0	0.219	102	70-130			

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## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1863 - EPA 200.8 (Continued)</b>											
<b>Matrix Spike (W4A1863-MS1) Source: 4A22067-01 Prepared: 01/24/24 Analyzed: 01/25/24</b>											
Zinc, Total	723	1.7	10	ug/l	50.0	681	85	70-130			
<b>Matrix Spike (W4A1863-MS2) Source: 4A22067-05 Prepared: 01/24/24 Analyzed: 01/25/24</b>											
Arsenic, Total	53.1	0.074	0.40	ug/l	50.0	1.88	102	70-130			
Cadmium, Total	50.6	0.042	0.20	ug/l	50.0	0.226	101	70-130			
Lead, Total	56.4	0.083	0.20	ug/l	50.0	5.17	102	70-130			
Selenium, Total	49.8	0.067	0.40	ug/l	50.0	0.200	99	70-130			
Silver, Total	51.5	0.027	0.20	ug/l	50.0	0.0854	103	70-130			
Zinc, Total	574	1.7	10	ug/l	50.0	530	88	70-130			
<b>Matrix Spike Dup (W4A1863-MSD1) Source: 4A22067-01 Prepared: 01/24/24 Analyzed: 01/25/24</b>											
Arsenic, Total	52.9	0.074	0.40	ug/l	50.0	1.59	102	70-130	1	30	
Cadmium, Total	51.7	0.042	0.20	ug/l	50.0	1.14	101	70-130	0.8	30	
Lead, Total	136	0.083	0.20	ug/l	50.0	83.9	104	70-130	0.5	30	
Selenium, Total	50.3	0.067	0.40	ug/l	50.0	0.215	100	70-130	0.8	30	
Silver, Total	52.0	0.027	0.20	ug/l	50.0	0.219	103	70-130	1	30	
Zinc, Total	728	1.7	10	ug/l	50.0	681	95	70-130	0.7	30	
<b>Matrix Spike Dup (W4A1863-MSD2) Source: 4A22067-05 Prepared: 01/24/24 Analyzed: 01/25/24</b>											
Arsenic, Total	52.9	0.074	0.40	ug/l	50.0	1.88	102	70-130	0.4	30	
Cadmium, Total	49.6	0.042	0.20	ug/l	50.0	0.226	99	70-130	2	30	
Lead, Total	55.7	0.083	0.20	ug/l	50.0	5.17	101	70-130	1	30	
Selenium, Total	50.5	0.067	0.40	ug/l	50.0	0.200	101	70-130	1	30	
Silver, Total	50.7	0.027	0.20	ug/l	50.0	0.0854	101	70-130	1	30	
Zinc, Total	571	1.7	10	ug/l	50.0	530	82	70-130	0.5	30	
<b>Batch: W4A1933 - EPA 245.1</b>											
<b>Blank (W4A1933-BLK1) Prepared: 01/24/24 Analyzed: 01/26/24</b>											
Mercury, Total	ND	0.037	0.050	ug/l							
<b>LCS (W4A1933-BS1) Prepared: 01/24/24 Analyzed: 01/26/24</b>											
Mercury, Total	1.02	0.037	0.050	ug/l	1.00		102	85-115			
<b>Matrix Spike (W4A1933-MS1) Source: 3L15020-01 Prepared: 01/24/24 Analyzed: 01/26/24</b>											
Mercury, Total	1.02	0.037	0.050	ug/l	1.00	ND	102	70-130			
<b>Matrix Spike (W4A1933-MS2) Source: 4A18015-05 Prepared: 01/24/24 Analyzed: 01/26/24</b>											
Mercury, Total	1.04	0.037	0.050	ug/l	1.00	ND	104	70-130			
<b>Matrix Spike Dup (W4A1933-MSD1) Source: 3L15020-01 Prepared: 01/24/24 Analyzed: 01/26/24</b>											
Mercury, Total	1.02	0.037	0.050	ug/l	1.00	ND	102	70-130	0.5	20	
<b>Matrix Spike Dup (W4A1933-MSD2) Source: 4A18015-05 Prepared: 01/24/24 Analyzed: 01/26/24</b>											
Mercury, Total	1.00	0.037	0.050	ug/l	1.00	ND	100	70-130	3	20	

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## Quality Control Results

(Continued)

### Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1730 - EPA 8260B</b>										
<b>Blank (W4A1730-BLK1)</b>					<b>Prepared &amp; Analyzed: 01/22/24</b>					
Benzene	ND	0.13	1.0	ug/l						
Ethylbenzene	ND	0.43	1.0	ug/l						
m,p-Xylene	ND	0.37	1.0	ug/l						
o-Xylene	ND	0.32	1.0	ug/l						
Toluene	ND	0.088	1.0	ug/l						
<i>Surrogate(s)</i>										
1,2-Dichloroethane-d4	51.5			ug/l	50.0		103 86-126			
4-Bromofluorobenzene	49.1			ug/l	50.0		98 80-112			
Dibromofluoromethane	50.0			ug/l	50.0		100 89-120			
Toluene-d8	51.8			ug/l	50.0		104 91-111			
<b>LCS (W4A1730-BS1)</b>					<b>Prepared &amp; Analyzed: 01/22/24</b>					
Benzene	22.5	0.13	1.0	ug/l	20.0		112 80-117			
Ethylbenzene	21.9	0.43	1.0	ug/l	20.0		110 76-131			
m,p-Xylene	22.2	0.37	1.0	ug/l	20.0		111 80-126			
o-Xylene	22.0	0.32	1.0	ug/l	20.0		110 84-121			
Toluene	22.5	0.088	1.0	ug/l	20.0		113 82-122			
<i>Surrogate(s)</i>										
1,2-Dichloroethane-d4	51.2			ug/l	50.0		102 86-126			
4-Bromofluorobenzene	51.7			ug/l	50.0		103 80-112			
Dibromofluoromethane	51.4			ug/l	50.0		103 89-120			
Toluene-d8	52.0			ug/l	50.0		104 91-111			
<b>LCS Dup (W4A1730-BSD1)</b>					<b>Prepared &amp; Analyzed: 01/22/24</b>					
Benzene	20.4	0.13	1.0	ug/l	20.0		102 80-117	10	25	
Ethylbenzene	19.7	0.43	1.0	ug/l	20.0		99 76-131	10	25	
m,p-Xylene	19.7	0.37	1.0	ug/l	20.0		99 80-126	12	25	
o-Xylene	19.8	0.32	1.0	ug/l	20.0		99 84-121	11	25	
Toluene	20.5	0.088	1.0	ug/l	20.0		103 82-122	9	25	
<i>Surrogate(s)</i>										
1,2-Dichloroethane-d4	50.4			ug/l	50.0		101 86-126			
4-Bromofluorobenzene	51.4			ug/l	50.0		103 80-112			
Dibromofluoromethane	51.7			ug/l	50.0		103 89-120			
Toluene-d8	51.7			ug/l	50.0		103 91-111			

SWT Engineering  
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 Ontario, CA 91761

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**Reported:**  
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**Project Manager:** SWT Engineering

## Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference

Source Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



**Weck Laboratories**

**Chain of Custody**

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Report To			Invoice To			Analysis Request										TAT																																																																																																																																												
Company: <b>Waste Connections, Inc.</b>			Contact: <b>Chiquita Canyon Landfill</b>													Standard	Rush																																																																																																																																											
Attn: <b>Kelly Kincella and Randal Bodnar</b>			Attn: <b>Maribel Bolanos</b>			10 Days	Days / Hours																																																																																																																																																					
Phone/Fax: <b>360-207-3465</b>			Address: <b>29201 Henry Mayo Dr. Castaica, CA 91384</b>			<input checked="" type="radio"/>	<input type="radio"/>																																																																																																																																																					
Email Address: <b>Kelly.kincella@WasteConnections.com Randal.Bodnar@Waste.Connections.com</b>			Phone/Fax: <b>(661) 257-3655</b>			Parameters for Contaminated Soils WDR R4-2011-0052																																																																																																																																																						
Additionally Report To			Sampler Name:					Notes																																																																																																																																																				
<b>lkm@swteng.com / 909-567-8052</b>			<b>Paul Chang</b>																																																																																																																																																									
<b>tmb@swteng.com / 909-390-1328</b>																																																																																																																																																												
<b>aav@swteng.com / 415-717-0910</b>																																																																																																																																																												
<b>pchang@changenvironmental.com</b>																																																																																																																																																												
Project Information			Container	Preservative	Matrix	Total Number of Containers per Sample ID	Ammonia (SM 4500)	COD (SM 5220 C)	Cyanide, Total (SM 4500 CN C, D, or E)	Nitrate + Nitrite Nitrogen (SM 4500-N03-E)	Phosphorous, Total (SM 4500-P B+E)	Arsenic, Total (EPA 200.8)	Cadmium, Total (EPA 200.8)	Lead, Total (EPA 200.8)	Magnesium, Total (EPA 200.7)	Mercury, Total (EPA 245.1)	Selenium, Total (EPA 200.8)	Silver, Total (EPA 200.8)	Zinc, Total (EPA 200.8)	BTEX (EPA 8260)																																																																																																																																								
Project ID: <b>Chiquita Canyon Landfill - WDR</b>			40ml Vial	Poly	Glass																Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other																																																																																																																														
Project Number:																															East	Date	Time	X	X	X	X	X	X	X	X	X	X	X	X	X	X																																																																																																													
																																																South	1/17/24	1345	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X																																																																																											



Weck Laboratories

Chain of Custody

Pg 1 of 1 **4A18010**

Report To			Invoice To										Analysis Request						TAT							
Company: Waste Connections, Inc.			Contact: Chiquita Canyon Landfill										<table border="1"> <tr> <td>Standard</td> <td>Rush</td> </tr> <tr> <td>10 Days</td> <td>Days / Hours</td> </tr> <tr> <td style="text-align: center;">●</td> <td style="text-align: center;">○</td> </tr> </table>						Standard	Rush	10 Days	Days / Hours	●	○	Notes	
Standard	Rush																									
10 Days	Days / Hours																									
●	○																									
Attn: Kelly Kincella and Randal Bodnar			Attn: Maribel Bolanos																							
Phone/Fax: 360-207-3465			Address: 29201 Henry Mayo Dr. Castaic, CA 91384																							
Email Address: Kelly.kincella@WasteConnections.com Randal.Bodnar@WasteConnections.com			Phone/Fax: (661) 257-3655																							
Additionally Report To																										
ikm@swteng.com / 909-567-8052			Sampler Name: <i>Paul Cheng</i>										Total Number of Containers per Sample ID TSS (SM 2540-D) O&G (EPA 1664A) Fe (EPA 200.7) Chloride (EPA 300.0) Coliform Bacteria, Total (EPA 9221 B, C, or E) E.coli (SM 9221F)													
tmb@swteng.com / 909-390-1328																										
aav@swteng.com / 415-717-0910																										
pchang@changenvironmental.com																										
Project Information			Container		Preservative				Matrix																	
Project ID: Chiquita Canyon Landfill - IGP																										
Project Number:																										
Sample Identification		Sample Collection																								
		Date	Time	40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other										
<del>East</del>				X	X			X	X	X			X	X			6	X	X	X	X	X	Field pH: <del>_____</del>			
South		1/17/24	1345	X	X		X	X	X			X	X	X			6	X	X	X	X	X	Field pH: 7.43			
Relinquished by			Received by										Date	Time	DDW Write On EDT Transmission? <input type="radio"/> Yes <input checked="" type="radio"/> No											
<i>Magaly S.</i>			<i>Magaly S.</i>										1/17/24	1445	State System Number: _____											
													1-17-24	16:37	If "Y" please enter the Source Number(s) in the column above											
													CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No													
													Global ID:		Sampling Company Log Code:											
													EDF to (Email Address):													
													Travel and Site Time:		Mileage:		Misc. Supplies:									

# Sample Receipt Checklist

Weck WKO: **4A18010**  
 WKO Logged by: Jaime Gomez  
 Samples Checked by: Jaime Gomez

Date/Time Received: 01/17/24 16:37  
 # of Samples: 02  
 Delivered by: RMS

Task		Yes	No	N/A	Comments
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified about COC discrepancy?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Receipt Information	Sample Temperature	2.0 °C			
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)				
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified about receipt info?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sample Preservation Verification?	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: (No) none, If Yes (see comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <6mm/Pea Size?
	pH verified upon receipt?				pH paper Lot# 3082367
	Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2, 6710B<2, 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Free Chlorine Tested <0.1 (Organics Analyses)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cl Test Strip Lot#
	O&G pH <2 verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot# 3082367
	pH adjusted for O&G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pH Reading: Acid Lot# Amt added:
	Project Manager notified about sample preservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

PM Comments

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Sample Receipt Checklist Completed by:

Signature: Jaime Gomez

Date: 01/17/24

**Work Orders:** 4A18009

**Report Date:** 2/26/2024

**Received Date:** 01/17/2024

**Project:** Chiquita Canyon Landfill - Subchapter N

**Turnaround Time:** Normal

**Phones:** (909) 390-1328

**Fax:**

**Attn:** SWT Engineering

**P.O. #:**

**Client:** SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Billing Code:**

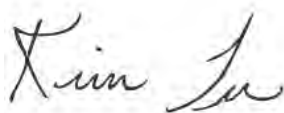
DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear SWT Engineering,

Enclosed are the results of analyses for samples received 1/17/24 with the Chain-of-Custody document. The samples were received in good condition, at 2.0 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Kim G. Tu  
Project Manager



SWT Engineering  
 800-C South Rochester Avenue  
 Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Subchapter N

**Reported:**  
 02/26/2024 14:52

**Project Manager:** SWT Engineering

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
South	Paul Chang	4A18009-01	Water	01/17/24 13:45	

## Analyses Accreditation Summary

Analyte	CAS #	Not By ELAP-CA	Not By NELAP	Not ANAB ISO 17025
<b>[FIELD] in Water</b> pH, Field	PH		✓	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Subchapter N

**Reported:**  
02/26/2024 14:52

**Project Manager:** SWT Engineering

## Sample Results

Sample: South

Sampled: 01/17/24 13:45 by Paul Chang

4A18009-01 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Acid and Base/Neutral Extractables by GC/MS

**Method:** EPA 625.1

**Instr:** GCMS06

**Batch ID:** W4A1492

**Preparation:** EPA 625/L-L SF

**Prepared:** 01/18/24 09:25

**Analyst:** rmr

3 & 4-Methylphenol	ND	10	20	ug/l	20	02/07/24	M-04
alpha-Terpineol	ND	8.8	20	ug/l	20	02/07/24	M-04
Benzoic acid	ND	590	2000	ug/l	20	02/07/24	M-04
Naphthalene	ND	9.8	20	ug/l	20	02/07/24	M-04
Phenol	ND	3.3	20	ug/l	20	02/07/24	M-04
Pyridine	ND	15	100	ug/l	20	02/07/24	M-04

#### Surrogate(s)

2,4,6-Tribromophenol	67%	Conc: 25.8	25-120			02/07/24	
2-Fluorobiphenyl	66%	Conc: 12.7	22-120			02/07/24	
2-Fluorophenol	38%	Conc: 14.6	17-120			02/07/24	
Nitrobenzene-d5	61%	Conc: 11.7	47-120			02/07/24	
Phenol-d5	24%	Conc: 9.28	12-120			02/07/24	
Terphenyl-d14	65%	Conc: 12.5	44-129			02/07/24	

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

**Method:** EPA 350.1

**Instr:** AA06

**Batch ID:** W4A1931

**Preparation:** \_NONE (WETCHEM)

**Prepared:** 01/24/24 09:43

**Analyst:** YMT

Ammonia as N	2.7	0.17	1.0	mg/l	10	01/25/24	
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**Method:** SM 2540D

**Instr:** OVEN15

**Batch ID:** W4A1595

**Preparation:** \_NONE (WETCHEM)

**Prepared:** 01/19/24 09:40

**Analyst:** kac

Total Suspended Solids	21	5	5	mg/l	1	01/19/24	
------------------------	----	---	---	------	---	----------	--

**Method:** SM 5210B

**Instr:** INC07

**Batch ID:** W4A1468

**Preparation:** \_NONE (WETCHEM)

**Prepared:** 01/17/24 17:01

**Analyst:** JLS

Biochemical Oxygen Demand	46	2.0	2.0	mg/l	1	01/23/24	
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### Field Data Collected by Client

**Method:** [FIELD]

**Instr:** \_FIELD

**Batch ID:** W4A1570

**Preparation:** \*\*\* DEFAULT PREP \*\*\*

**Prepared:** 01/17/24 13:45

**Analyst:** \_clnt

pH, Field	7.43			pH Units	1	01/17/24 13:45	
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### Metals by EPA 200 Series Methods

**Method:** EPA 200.8

**Instr:** ICPMS06

**Batch ID:** W4A1699

**Preparation:** EPA 200.2

**Prepared:** 01/22/24 14:25

**Analyst:** tyc

Arsenic, Total	14	0.074	0.40	ug/l	1	01/23/24	
Chromium, Total	4.4	0.089	0.20	ug/l	1	01/23/24	
Zinc, Total	20	1.7	10	ug/l	1	01/23/24	

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Subchapter N

**Reported:**  
02/26/2024 14:52

**Project Manager:** SWT Engineering

## Quality Control Results

### Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Qualifier
<b>Batch: W4A1492 - EPA 625.1</b>											
<b>Blank (W4A1492-BLK1)</b>						<b>Prepared: 01/18/24 Analyzed: 02/06/24</b>					
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l							
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l							
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l							
1,3-Dinitrobenzene	ND	0.21	1.0	ug/l							
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l							
1-Methylnaphthalene	ND	0.47	1.0	ug/l							
2,4,5-Trichlorophenol	ND	0.23	1.0	ug/l							
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l							
2,4-Dichlorophenol	ND	0.26	1.0	ug/l							
2,4-Dimethylphenol	ND	0.76	1.0	ug/l							
2,4-Dinitrophenol	ND	4.4	10	ug/l							
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l							
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l							
2-Chloronaphthalene	ND	0.45	1.0	ug/l							
2-Chlorophenol	ND	0.28	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	2.4	5.0	ug/l							
2-Methylnaphthalene	ND	0.49	1.0	ug/l							
2-Methylphenol	ND	0.48	1.0	ug/l							
2-Nitroaniline	ND	0.44	1.0	ug/l							
2-Nitrophenol	ND	0.26	1.0	ug/l							
3 & 4-Methylphenol	ND	0.50	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l							
3-Nitroaniline	ND	0.26	1.0	ug/l							
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l							
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l							
4-Chloroaniline	ND	0.48	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l							
4-Nitroaniline	ND	0.41	1.0	ug/l							
4-Nitrophenol	ND	1.2	5.0	ug/l							
Acenaphthene	ND	0.38	1.0	ug/l							
Acenaphthylene	ND	0.35	1.0	ug/l							
alpha-Terpineol	ND	0.44	1.0	ug/l							
Aniline	ND	0.32	1.0	ug/l							
Anthracene	ND	0.41	1.0	ug/l							
Benzidine	ND	3.2	10	ug/l							
Benzo (a) anthracene	ND	0.46	1.0	ug/l							
Benzo (a) pyrene	ND	0.82	1.0	ug/l							
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l							

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Subchapter N

**Reported:**  
02/26/2024 14:52

**Project Manager:** SWT Engineering

## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1492 - EPA 625.1 (Continued)</b>											
<b>Blank (W4A1492-BLK1)</b>						<b>Prepared: 01/18/24 Analyzed: 02/06/24</b>					
Benzo (g,h,i) perylene	ND	0.42	2.0	ug/l							
Benzo (k) fluoranthene	ND	0.72	1.0	ug/l							
Benzoic acid	ND	30	100	ug/l							
Benzyl alcohol	ND	0.26	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.3	5.0	ug/l							
Butyl benzyl phthalate	ND	0.49	1.0	ug/l							
Carbazole	ND	0.20	1.0	ug/l							
Chrysene	ND	0.19	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	0.60	2.0	ug/l							
Dibenzofuran	ND	0.37	1.0	ug/l							
Diethyl phthalate	ND	0.35	1.0	ug/l							
Dimethyl phthalate	ND	0.18	1.0	ug/l							
Di-n-butyl phthalate	ND	0.34	1.0	ug/l							
Di-n-octyl phthalate	ND	0.46	1.0	ug/l							
Fluoranthene	ND	0.35	1.0	ug/l							
Fluorene	ND	0.35	1.0	ug/l							
Hexachlorobenzene	ND	0.49	1.0	ug/l							
Hexachlorobutadiene	ND	0.47	1.0	ug/l							
Hexachlorocyclopentadiene	ND	1.5	5.0	ug/l							
Hexachloroethane	ND	0.50	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	0.66	2.0	ug/l							
Isophorone	ND	0.21	1.0	ug/l							
Naphthalene	ND	0.49	1.0	ug/l							
Nitrobenzene	ND	0.36	1.0	ug/l							
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l							
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l							
Pentachlorophenol	ND	0.40	1.0	ug/l							
Phenanthrene	ND	0.32	1.0	ug/l							
Phenol	ND	0.17	1.0	ug/l							
Pyrene	ND	0.25	1.0	ug/l							
Pyridine	ND	0.75	5.0	ug/l							
<i>Surrogate(s)</i>											
2,4,6-Tribromophenol	28.0			ug/l	40.0		70	25-120			
2-Fluorobiphenyl	12.7			ug/l	20.0		63	22-120			
2-Fluorophenol	17.6			ug/l	40.0		44	17-120			

SWT Engineering  
800-C South Rochester Avenue  
Ontario, CA 91761

**Project Number:** Chiquita Canyon Landfill - Subchapter N

**Reported:**  
02/26/2024 14:52

**Project Manager:** SWT Engineering

## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1492 - EPA 625.1 (Continued)</b>										
<b>Blank (W4A1492-BLK1)</b>					<b>Prepared: 01/18/24 Analyzed: 02/06/24</b>					
<i>Surrogate(s)</i>										
Nitrobenzene-d5	13.6			ug/l	20.0		68 47-120			
Phenol-d5	9.80			ug/l	40.0		25 12-120			
Terphenyl-d14	19.7			ug/l	20.0		98 44-129			
<b>LCS (W4A1492-BS1)</b>					<b>Prepared: 01/18/24 Analyzed: 02/06/24</b>					
1,2,4-Trichlorobenzene	14.5	0.49	1.0	ug/l	20.0		72 57-130			
1,2-Dichlorobenzene	15.9	0.46	1.0	ug/l	20.0		80 57-120			
1,3-Dichlorobenzene	14.9	0.42	1.0	ug/l	20.0		75 55-120			
1,4-Dichlorobenzene	16.3	0.48	1.0	ug/l	20.0		82 55-120			
2,4,6-Trichlorophenol	17.0	0.22	1.0	ug/l	20.0		85 52-129			
2,4-Dichlorophenol	16.1	0.26	1.0	ug/l	20.0		80 53-122			
2,4-Dimethylphenol	15.8	0.76	1.0	ug/l	20.0		79 42-120			
2,4-Dinitrophenol	18.9	4.4	10	ug/l	20.0		95 0.1-173			
2,4-Dinitrotoluene	17.2	0.46	1.0	ug/l	20.0		86 48-127			
2,6-Dinitrotoluene	16.3	0.27	1.0	ug/l	20.0		82 68-137			
2-Chloronaphthalene	15.2	0.45	1.0	ug/l	20.0		76 65-120			
2-Chlorophenol	14.1	0.28	1.0	ug/l	20.0		70 36-120			
2-Methyl-4,6-dinitrophenol	18.6	2.4	5.0	ug/l	20.0		93 53-130			
2-Nitrophenol	17.0	0.26	1.0	ug/l	20.0		85 45-167			
3,3'-Dichlorobenzidine	7.36	2.5	5.0	ug/l	20.0		37 8-213			
4-Bromophenyl phenyl ether	15.6	0.36	1.0	ug/l	20.0		78 65-120			
4-Chloro-3-methylphenol	16.3	0.23	1.0	ug/l	20.0		82 41-128			
4-Chlorophenyl phenyl ether	13.7	0.41	1.0	ug/l	20.0		69 38-145			
4-Nitrophenol	6.06	1.2	5.0	ug/l	20.0		30 13-129			
Acenaphthene	16.2	0.38	1.0	ug/l	20.0		81 60-132			
Acenaphthylene	16.9	0.35	1.0	ug/l	20.0		84 54-126			
alpha-Terpineol	17.7	0.44	1.0	ug/l	20.0		89 60-140			
Anthracene	18.1	0.41	1.0	ug/l	20.0		90 43-120			
Benzo (a) anthracene	17.6	0.46	1.0	ug/l	20.0		88 42-133			
Benzo (a) pyrene	20.2	0.82	1.0	ug/l	20.0		101 32-148			
Benzo (b) fluoranthene	20.2	0.46	1.0	ug/l	20.0		101 42-140			AN-IP
Benzo (g,h,i) perylene	23.3	0.42	2.0	ug/l	20.0		117 0.1-195			
Benzo (k) fluoranthene	18.7	0.72	1.0	ug/l	20.0		94 25-146			AN-IP
Bis(2-chloroethoxy)methane	17.0	0.25	1.0	ug/l	20.0		85 49-165			
Bis(2-chloroethyl)ether	14.2	0.27	1.0	ug/l	20.0		71 43-126			
Bis(2-chloroisopropyl)ether	18.1	0.38	1.0	ug/l	20.0		90 63-139			
Bis(2-ethylhexyl)phthalate	21.4	2.3	5.0	ug/l	20.0		107 29-137			
Butyl benzyl phthalate	21.4	0.49	1.0	ug/l	20.0		107 0.1-140			
Chrysene	16.7	0.19	1.0	ug/l	20.0		84 44-140			

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1492 - EPA 625.1 (Continued)</b>										
<b>LCS (W4A1492-BS1)</b>					<b>Prepared: 01/18/24 Analyzed: 02/06/24</b>					
Dibenzo (a,h) anthracene	19.8	0.60	2.0	ug/l	20.0	99	0.1-200			
Diethyl phthalate	15.5	0.35	1.0	ug/l	20.0	78	0.1-120			
Dimethyl phthalate	15.5	0.18	1.0	ug/l	20.0	78	0.1-120			
Di-n-butyl phthalate	18.0	0.34	1.0	ug/l	20.0	90	8-120			
Di-n-octyl phthalate	20.2	0.46	1.0	ug/l	20.0	101	19-132			
Fluoranthene	20.3	0.35	1.0	ug/l	20.0	102	43-121			
Fluorene	15.3	0.35	1.0	ug/l	20.0	77	70-120			
Hexachlorobenzene	15.4	0.49	1.0	ug/l	20.0	77	8-142			
Hexachlorobutadiene	15.4	0.47	1.0	ug/l	20.0	77	38-120			
Hexachlorocyclopentadiene	13.7	1.5	5.0	ug/l	20.0	69	10-120			
Hexachloroethane	15.3	0.50	1.0	ug/l	20.0	76	55-120			
Indeno (1,2,3-cd) pyrene	19.5	0.66	2.0	ug/l	20.0	97	0.1-151			
Isophorone	14.3	0.21	1.0	ug/l	20.0	71	47-180			
Naphthalene	15.3	0.49	1.0	ug/l	20.0	76	36-120			
Nitrobenzene	16.8	0.36	1.0	ug/l	20.0	84	54-158			
N-Nitrosodimethylamine	8.25	0.50	1.0	ug/l	20.0	41	22-120			
N-Nitrosodi-n-propylamine	17.4	0.26	1.0	ug/l	20.0	87	14-198			
N-Nitrosodiphenylamine	13.4	0.19	1.0	ug/l	20.0	67	47-120			
Pentachlorophenol	16.8	0.40	1.0	ug/l	20.0	84	41-120			
Phenanthrene	17.8	0.32	1.0	ug/l	20.0	89	65-120			
Phenol	5.72	0.17	1.0	ug/l	20.0	29	17-120			
Pyrene	20.9	0.25	1.0	ug/l	20.0	104	70-120			
<i>Surrogate(s)</i>										
2,4,6-Tribromophenol	33.9			ug/l	40.0	85	25-120			
2-Fluorobiphenyl	14.7			ug/l	20.0	73	22-120			
2-Fluorophenol	19.2			ug/l	40.0	48	17-120			
Nitrobenzene-d5	16.3			ug/l	20.0	82	47-120			
Phenol-d5	11.3			ug/l	40.0	28	12-120			
Terphenyl-d14	21.7			ug/l	20.0	109	44-129			
<b>LCS Dup (W4A1492-BSD1)</b>					<b>Prepared: 01/18/24 Analyzed: 02/06/24</b>					
1,2,4-Trichlorobenzene	14.2	0.49	1.0	ug/l	20.0	71	57-130	2	30	
1,2-Dichlorobenzene	15.6	0.46	1.0	ug/l	20.0	78	57-120	2	30	
1,3-Dichlorobenzene	14.8	0.42	1.0	ug/l	20.0	74	55-120	0.6	30	
1,4-Dichlorobenzene	16.3	0.48	1.0	ug/l	20.0	81	55-120	0.5	30	
2,4,6-Trichlorophenol	16.3	0.22	1.0	ug/l	20.0	82	52-129	4	30	
2,4-Dichlorophenol	15.9	0.26	1.0	ug/l	20.0	80	53-122	0.9	30	
2,4-Dimethylphenol	16.6	0.76	1.0	ug/l	20.0	83	42-120	5	30	
2,4-Dinitrophenol	17.8	4.4	10	ug/l	20.0	89	0.1-173	6	30	
2,4-Dinitrotoluene	15.8	0.46	1.0	ug/l	20.0	79	48-127	8	30	

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1492 - EPA 625.1 (Continued)</b>										
<b>LCS Dup (W4A1492-bsd1)</b>					<b>Prepared: 01/18/24 Analyzed: 02/06/24</b>					
2,6-Dinitrotoluene	15.2	0.27	1.0	ug/l	20.0	76	68-137	7	30	
2-Chloronaphthalene	14.4	0.45	1.0	ug/l	20.0	72	65-120	6	30	
2-Chlorophenol	14.2	0.28	1.0	ug/l	20.0	71	36-120	1	30	
2-Methyl-4,6-dinitrophenol	16.7	2.4	5.0	ug/l	20.0	83	53-130	11	30	
2-Nitrophenol	16.8	0.26	1.0	ug/l	20.0	84	45-167	1	30	
3,3'-Dichlorobenzidine	8.96	2.5	5.0	ug/l	20.0	45	8-213	20	30	
4-Bromophenyl phenyl ether	14.4	0.36	1.0	ug/l	20.0	72	65-120	8	30	
4-Chloro-3-methylphenol	15.0	0.23	1.0	ug/l	20.0	75	41-128	9	30	
4-Chlorophenyl phenyl ether	13.3	0.41	1.0	ug/l	20.0	66	38-145	3	30	
4-Nitrophenol	5.56	1.2	5.0	ug/l	20.0	28	13-129	9	30	
Acenaphthene	15.7	0.38	1.0	ug/l	20.0	78	60-132	4	30	
Acenaphthylene	15.9	0.35	1.0	ug/l	20.0	80	54-126	6	30	
alpha-Terpineol	16.9	0.44	1.0	ug/l	20.0	85	60-140	5	30	
Anthracene	15.8	0.41	1.0	ug/l	20.0	79	43-120	13	30	
Benzo (a) anthracene	16.2	0.46	1.0	ug/l	20.0	81	42-133	8	30	
Benzo (a) pyrene	18.8	0.82	1.0	ug/l	20.0	94	32-148	8	30	
Benzo (b) fluoranthene	18.5	0.46	1.0	ug/l	20.0	92	42-140	9	30	AN-IP
Benzo (g,h,i) perylene	22.3	0.42	2.0	ug/l	20.0	112	0.1-195	4	30	
Benzo (k) fluoranthene	17.2	0.72	1.0	ug/l	20.0	86	25-146	9	30	AN-IP
Bis(2-chloroethoxy)methane	16.7	0.25	1.0	ug/l	20.0	83	49-165	2	30	
Bis(2-chloroethyl)ether	14.0	0.27	1.0	ug/l	20.0	70	43-126	1	30	
Bis(2-chloroisopropyl)ether	17.8	0.38	1.0	ug/l	20.0	89	63-139	2	30	
Bis(2-ethylhexyl)phthalate	19.7	2.3	5.0	ug/l	20.0	99	29-137	8	30	
Butyl benzyl phthalate	19.4	0.49	1.0	ug/l	20.0	97	0.1-140	10	30	
Chrysene	15.6	0.19	1.0	ug/l	20.0	78	44-140	7	30	
Dibenzo (a,h) anthracene	18.6	0.60	2.0	ug/l	20.0	93	0.1-200	6	30	
Diethyl phthalate	14.8	0.35	1.0	ug/l	20.0	74	0.1-120	5	30	
Dimethyl phthalate	14.5	0.18	1.0	ug/l	20.0	72	0.1-120	7	30	
Di-n-butyl phthalate	16.5	0.34	1.0	ug/l	20.0	83	8-120	9	30	
Di-n-octyl phthalate	17.9	0.46	1.0	ug/l	20.0	90	19-132	12	30	
Fluoranthene	18.0	0.35	1.0	ug/l	20.0	90	43-121	12	30	
Fluorene	14.7	0.35	1.0	ug/l	20.0	74	70-120	4	30	
Hexachlorobenzene	14.5	0.49	1.0	ug/l	20.0	73	8-142	6	30	
Hexachlorobutadiene	15.0	0.47	1.0	ug/l	20.0	75	38-120	3	30	
Hexachlorocyclopentadiene	12.7	1.5	5.0	ug/l	20.0	64	10-120	7	30	
Hexachloroethane	15.3	0.50	1.0	ug/l	20.0	76	55-120	0.08	30	
Indeno (1,2,3-cd) pyrene	18.1	0.66	2.0	ug/l	20.0	91	0.1-151	7	30	
Isophorone	14.0	0.21	1.0	ug/l	20.0	70	47-180	2	30	
Naphthalene	15.0	0.49	1.0	ug/l	20.0	75	36-120	2	30	

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## Quality Control Results

(Continued)

### Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1492 - EPA 625.1 (Continued)</b>											
<b>LCS Dup (W4A1492-BSD1)</b>											
<b>Prepared: 01/18/24 Analyzed: 02/06/24</b>											
Nitrobenzene	16.7	0.36	1.0	ug/l	20.0	84	54-158	0.4	30		
N-Nitrosodimethylamine	9.22	0.50	1.0	ug/l	20.0	46	22-120	11	30		
N-Nitrosodi-n-propylamine	16.9	0.26	1.0	ug/l	20.0	84	14-198	3	30		
N-Nitrosodiphenylamine	12.9	0.19	1.0	ug/l	20.0	64	47-120	4	30		
Pentachlorophenol	14.9	0.40	1.0	ug/l	20.0	75	41-120	12	30		
Phenanthrene	16.1	0.32	1.0	ug/l	20.0	80	65-120	10	30		
Phenol	5.22	0.17	1.0	ug/l	20.0	26	17-120	9	30		
Pyrene	18.5	0.25	1.0	ug/l	20.0	93	70-120	12	30		
<i>Surrogate(s)</i>											
2,4,6-Tribromophenol	31.4			ug/l	40.0	78	25-120				
2-Fluorobiphenyl	14.3			ug/l	20.0	71	22-120				
2-Fluorophenol	19.5			ug/l	40.0	49	17-120				
Nitrobenzene-d5	15.5			ug/l	20.0	78	47-120				
Phenol-d5	11.4			ug/l	40.0	29	12-120				
Terphenyl-d14	19.7			ug/l	20.0	99	44-129				

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## Quality Control Results

(Continued)

### Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD Limit	Qualifier
<b>Batch: W4A1468 - SM 5210B</b>									
<b>Blank (W4A1468-BLK1)</b>					<b>Prepared: 01/17/24 Analyzed: 01/23/24</b>				
Biochemical Oxygen Demand	ND	2.0	2.0	mg/l					
<b>Blank (W4A1468-BLK2)</b>					<b>Prepared: 01/17/24 Analyzed: 01/23/24</b>				
Biochemical Oxygen Demand	ND	2.0	2.0	mg/l					
<b>Blank (W4A1468-BLK3)</b>					<b>Prepared: 01/17/24 Analyzed: 01/23/24</b>				
Biochemical Oxygen Demand	ND	2.0	2.0	mg/l					
<b>LCS (W4A1468-BS1)</b>					<b>Prepared: 01/17/24 Analyzed: 01/23/24</b>				
Biochemical Oxygen Demand	224	2.0	2.0	mg/l	198		113 85-115		
<b>Duplicate (W4A1468-DUP1)</b>					<b>Source: 4A17091-04 Prepared: 01/17/24 Analyzed: 01/23/24</b>				
Biochemical Oxygen Demand	ND	2.0	2.0	mg/l		ND		20	
<b>Batch: W4A1595 - SM 2540D</b>									
<b>Blank (W4A1595-BLK1)</b>					<b>Prepared &amp; Analyzed: 01/19/24</b>				
Total Suspended Solids	ND	5	5	mg/l					
<b>LCS (W4A1595-BS1)</b>					<b>Prepared &amp; Analyzed: 01/19/24</b>				
Total Suspended Solids	67.5	5	5	mg/l	61.8		109 90-110		
<b>Duplicate (W4A1595-DUP1)</b>					<b>Source: 4A18050-01 Prepared &amp; Analyzed: 01/19/24</b>				
Total Suspended Solids	813	5	5	mg/l		800		2 10	
<b>Duplicate (W4A1595-DUP2)</b>					<b>Source: 4A10003-01 Prepared &amp; Analyzed: 01/19/24</b>				
Total Suspended Solids	ND	5	5	mg/l		ND		200 10	
<b>Batch: W4A1931 - EPA 350.1</b>									
<b>Blank (W4A1931-BLK1)</b>					<b>Prepared: 01/24/24 Analyzed: 01/25/24</b>				
Ammonia as N	ND	0.017	0.10	mg/l					
<b>Blank (W4A1931-BLK2)</b>					<b>Prepared: 01/24/24 Analyzed: 01/25/24</b>				
Ammonia as N	ND	0.017	0.10	mg/l					
<b>LCS (W4A1931-BS1)</b>					<b>Prepared: 01/24/24 Analyzed: 01/25/24</b>				
Ammonia as N	0.251	0.017	0.10	mg/l	0.250		100 90-110		
<b>LCS (W4A1931-BS2)</b>					<b>Prepared: 01/24/24 Analyzed: 01/25/24</b>				
Ammonia as N	0.261	0.017	0.10	mg/l	0.250		104 90-110		
<b>Matrix Spike (W4A1931-MS1)</b>					<b>Source: 4A22088-02 Prepared: 01/24/24 Analyzed: 01/25/24</b>				
Ammonia as N	0.292	0.017	0.10	mg/l	0.250	0.0399	101 90-110		
<b>Matrix Spike (W4A1931-MS2)</b>					<b>Source: 4A23159-01 Prepared: 01/24/24 Analyzed: 01/25/24</b>				
Ammonia as N	0.346	0.017	0.10	mg/l	0.250	0.100	98 90-110		
<b>Matrix Spike Dup (W4A1931-MSD1)</b>					<b>Source: 4A22088-02 Prepared: 01/24/24 Analyzed: 01/25/24</b>				
Ammonia as N	0.297	0.017	0.10	mg/l	0.250	0.0399	103 90-110	2 15	
<b>Matrix Spike Dup (W4A1931-MSD2)</b>					<b>Source: 4A23159-01 Prepared: 01/24/24 Analyzed: 01/25/24</b>				
Ammonia as N	0.353	0.017	0.10	mg/l	0.250	0.100	101 90-110	2 15	

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## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W4A1699 - EPA 200.8</b>											
<b>Blank (W4A1699-BLK1)</b>					<b>Prepared: 01/22/24 Analyzed: 01/23/24</b>						
Arsenic, Total	ND	0.074	0.40	ug/l							
Chromium, Total	0.155	0.089	0.20	ug/l							J
Zinc, Total	ND	1.7	10	ug/l							
<b>LCS (W4A1699-BS1)</b>					<b>Prepared: 01/22/24 Analyzed: 01/23/24</b>						
Arsenic, Total	51.3	0.074	0.40	ug/l	50.0		103	85-115			
Chromium, Total	51.4	0.089	0.20	ug/l	50.0		103	85-115			
Zinc, Total	52.9	1.7	10	ug/l	50.0		106	85-115			
<b>Matrix Spike (W4A1699-MS1)</b>					<b>Source: 4A19024-04 Prepared: 01/22/24 Analyzed: 01/23/24</b>						
Arsenic, Total	53.0	0.074	0.40	ug/l	50.0	0.872	104	70-130			
Chromium, Total	51.4	0.089	0.20	ug/l	50.0	0.343	102	70-130			
Zinc, Total	52.0	1.7	10	ug/l	50.0	ND	104	70-130			
<b>Matrix Spike Dup (W4A1699-MSD1)</b>					<b>Source: 4A19024-04 Prepared: 01/22/24 Analyzed: 01/23/24</b>						
Arsenic, Total	53.1	0.074	0.40	ug/l	50.0	0.872	104	70-130	0.2	30	
Chromium, Total	51.6	0.089	0.20	ug/l	50.0	0.343	102	70-130	0.4	30	
Zinc, Total	52.1	1.7	10	ug/l	50.0	ND	104	70-130	0.1	30	

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## Notes and Definitions

Item	Definition
AN-IP	Sample results for structural isomers may have contribution from their isomeric pair.
J	Estimated conc. detected <MRL and >MDL.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Week Laboratories

Chain of Custody

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4A18009

Report To			Invoice To										Analysis Request										TAT							
Company: Waste Connections, Inc.			Contact: Chiquita Canyon Landfill										<table border="1"> <tr> <td>Standard</td> <td>Rush</td> </tr> <tr> <td>10 Days</td> <td>Days / Hours</td> </tr> <tr> <td style="text-align: center;">●</td> <td style="text-align: center;">○</td> </tr> </table>										Standard	Rush	10 Days	Days / Hours	●	○	Notes	
Standard	Rush																													
10 Days	Days / Hours																													
●	○																													
Attn: Kelly Kincella and Randal Bodnar			Attn: Maribel Bolanos																											
Phone/Fax: 360-207-3465			Address: 29201 Henry Mayo Dr. Castaic, CA 91384																											
Email Address: Kelly.kincella@WasteConnections.com Randal.Bodnar@WasteConnections.com			Phone/Fax: (661) 257-3655																											
Additionally Report To																														
ikm@swteng.com / 909-567-8052			Sampler Name: <i>Paul Chang</i>																											
tmb@swteng.com / 909-390-1328																														
aav@swteng.com / 415-717-0910																														
pchang@changenvironmental.com																														
Project Information			Container		Preservative				Matrix				Total Number of Containers per Sample ID																	
Project ID: Chiquita Canyon Landfill - Subchapter N																														
Project Number:																														
Sample Identification		Sample Collection																												
		Date	Time	40ml Vial	Poly	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Water	Soil	Other	TSS (SM 2540-D)	BOD (SM 5210B)	Ammonia (as Nitrogen) (SM 350.1)	α - Terpineol (USEPA 625)	Benzoic Acid (USEPA 625)	Naphthalene (USEPA 625)	p-Cresol (USEPA 625)	Phenol (USEPA 625)	Pyridine (USEPA 625)	Arsenic (USEPA 200.8)	Chromium (USEPA 200.7/200.8)	Zinc (USEPA 200.8)		
<del>East</del>				X	X		X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	Field pH: -
South		1/17/24	1345	X	X		X	X	X	X	X	X	X	X			6	X	X	X	X	X	X	X	X	X	X	X	X	Field pH: 7.43
Relinquished by			Received by										Date	Time	DDW Write On EDT Transmission? <input type="radio"/> Yes <input checked="" type="radio"/> No															
<i>Magaly S.</i>			<i>Magaly S.</i>										1/17/24	1445	State System Number: _____															
			<i>Janehunn 1/17/24 (16:37)</i>										1-17-24	16:37	If "Y" please enter the Source Number(s) in the column above															
															CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No															
															Global ID: <i>2.0°C TUBE</i> Sampling Company Log Code:															
															EDF to (Email Address):															
															Travel and Site Time: Mileage: Misc. Supplies:															



# Sample Receipt Checklist

Weck WKO: **4A18009**

WKO Logged by: Jaime Gomez

Samples Checked by: Jaime Gomez

Date/Time Received: 01/17/24 16:37

# of Samples: 01

Delivered by: RMS

Task		Yes	No	N/A	Comments
COC	COC present at receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	COC matches sample labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Project Manager notified about COC discrepancy?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Receipt Information	Sample Temperature	2.0 °C			
	Samples received on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Ice Type (Blue/Wet)				
	All samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Sufficient sample volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Samples intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Project Manager notified about receipt info?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sample Preservation Verification?	Sample labels checked for correct preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	VOC Headspace: (No) none, If Yes (see comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <6mm/Pea Size?
	pH verified upon receipt?				
	Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2, 6710B<2, 608.3 5-9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot# 3082367
	Free Chlorine Tested <0.1 (Organics Analyses)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cl Test Strip Lot# 11032201
	O&G pH <2 verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH paper Lot#
	pH adjusted for O&G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH Reading: Acid Lot#
	Project Manager notified about sample preservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Amt added:

PM Comments

Sample Receipt Checklist Completed by:

Signature: Jaime Gomez

Date: 01/17/24