



# Technical Package Cover Page

**This file contains the following documents:**

1. Summary of application (in plain language)
    - English
    - Alternative Language (Spanish)
  2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
    - English
    - Alternative Language (Spanish)
  3. Second notice (NAPD-Notice of Preliminary Decision)
    - English
    - Alternative Language (Spanish)
  4. Application materials
  5. Draft permit
  6. Technical summary or fact sheet
- 



# Portada de Paquete Técnico

**Este archivo contiene los siguientes documentos:**

1. Resumen de la solicitud (en lenguaje sencillo)
  - Inglés
  - Idioma alternativo (español)
2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
  - Inglés
  - Idioma alternativo (español)
3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
  - Inglés
  - Idioma alternativo (español)
4. Materiales de la solicitud
5. Proyecto de permiso
6. Resumen técnico u hoja de datos

# **Plain Language Summary for Texas Pollutant Discharge Elimination System (TPDES) Permit Application**

## **Individual Industrial Wastewater Application**

Bissonnet 136, LLC (CN606018687) is the property owner for the Doty Sand Pit Venture (DSPV) Landfill (RN101288322), an 118.778-acre closed landfill (Municipal Solid Waste [MSW] Permit No. 1247) and the Olshan Demolishing Landfill (RN101288322), an 18.11-acre closed landfill (MSW Permit No. 1259, revoked). The facility is located at 12000 Bissonnet Street in Houston, Harris County, Texas 77099. This permit application is for the discharge of wastewater encountered during the excavation of the utility trenches, drainage ditches, and detention basins during the development activities of the facility.

Discharges from the facility for this authorization are expected to contain stormwater that does come in contact with the landfill waste during the development activities and the landfill leachate encountered during the development activities. These wastewater discharges will be treated using the excavated detention basins as settlement treatment ponds. The treated wastewater flows into the Harris County Flood Control District ditch D120-00-00 and ultimately into Brays Bayou.

## **PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES**

### **AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES**

Bissonnet 136, LLC (CN606018687) es el propietario de la propiedad del vertedero Doty Sand Pit Venture (DSPV) (RN101288322), un vertedero cerrado de 118,779 acres (Número de permiso para Residuos Sólidos Municipales [MSW] 1247) y del vertedero de demolición Olshan (RN101288322), un vertedero cerrado de 18,11 acres (Permiso de MSW No. 1259, revocado). La instalación está ubicada en 12000 Bissonnet Street, en Houston, Condado de Harris, Texas 77099. Esta solicitud de permiso es para la descarga de aguas residuales encontradas durante la excavación de zanjas de servicios públicos, zanjas de drenaje y cuencas de detención durante las actividades de desarrollo de la instalación.

Se espera que las descargas de la instalación contengan aguas pluviales que no entren en contacto con los desechos del vertedero, las aguas pluviales sí entran en contacto con los desechos del vertedero durante las actividades de desarrollo y el lixiviado del vertedero que se encuentra durante las actividades de desarrollo. Estas descargas de aguas residuales se tratarán utilizando los estanques de detención excavados como estanques de tratamiento de sedimentación. Las aguas residuales tratadas fluyen hacia la zanja D120-00-00 del Distrito de Control de Inundaciones del Condado de Harris y, finalmente, hacia Brays Bayou.

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT

**PROPOSED PERMIT NO. WQ0005467000**

**APPLICATION.** Bissonnet 136, LLC, 20 Park Road, Suite G, Burlingame, California 94010, which owns two former closed landfills, has applied to the Texas Commission on Environmental Quality (TCEQ) proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005467000 (EPA I.D. No. TX0146722) to authorize the discharge of leachate, stormwater and groundwater that has been in contact with waste at a volume not to exceed a daily average flow of 500,000 gallons per day. The facility is located at 12000 Bissonnet Street, in the city of Houston, Harris County, Texas 77099. The discharge route will be from the plant site to a series of detention ponds, thence to a Harris County Flood Control District ditch, thence to Brays Bayou Above Tidal, thence to Houston Ship Channel/Buffalo Bayou Tidal. TCEQ received this application on October 3, 2024. The permit application will be available for viewing and copying at Alief-David M. Henington Regional Library, 11903 Bellaire Boulevard, Houston, in Harris County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.588333,29.683888&level=18>

**ALTERNATIVE LANGUAGE NOTICE.** Alternative language notice in Spanish is available at:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

El aviso de idioma alternativo en español está disponible en

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

**ADDITIONAL NOTICE.** TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. **Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.**

**PUBLIC COMMENT / PUBLIC MEETING.** You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a

public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

**OPPORTUNITY FOR A CONTESTED CASE HEARING.** After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing.** A contested case hearing is a legal proceeding similar to a civil trial in state district court.

**TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST:** your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.**

**MAILING LIST.** If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

**INFORMATION AVAILABLE ONLINE.** For details about the status of the application, visit the Commissioners' Integrated Database at [www.tceq.texas.gov/goto/cid](http://www.tceq.texas.gov/goto/cid). Search the database using the permit number for this application, which is provided at the top of this notice.

**AGENCY CONTACTS AND INFORMATION.** All public comments and requests must be submitted either electronically at <https://www14.tceq.texas.gov/epic/eComment/>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at [www.tceq.texas.gov/goto/pep](http://www.tceq.texas.gov/goto/pep). Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Bissonnet 136, LLC at the address stated above or by calling Mr. Mike Schultz, P.E., SKA Consulting LP, at 713-266-6056.

Issuance Date: November 12, 2024

# Comisión de Calidad Ambiental del Estado de Texas



## AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA

### PERMISO PROPUESTO NO. WQ0005467000

**SOLICITUD.** Bissonnet 136, LLC, 20 Park Road, Suite G, Burlingame, California 94010, propietaria de dos antiguos vertederos cerrados, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0005467000 (EPA I.D. No. TX0146722) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 500.000 galones por día. La planta está ubicada 12000 Bissonnet Street en la ciudad de Houston en el Condado de Harris, Texas 77099. La ruta de descarga es del sitio de la planta a una serie de estanques de detención, de allí a una zanja del Distrito de Control de Inundaciones del Condado de Harris, de allí a Brays Bayou Above Tidal, de allí a Houston Ship Channel/ Buffalo Bayou Tidal. La TCEQ recibió esta solicitud el 3 de octubre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Alief-David M. Henington Regional Library, 11903 Bellaire Boulevard, Houston, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.588333,29.683888&level=18>

**AVISO DE IDIOMA ALTERNATIVO.** El aviso de idioma alternativo en español está disponible en <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

**AVISO ADICIONAL.** El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

**COMENTARIO PUBLICO / REUNION PUBLICA.** Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ

realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

**OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.** Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todos los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

**PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS:** su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante

indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

**INFORMACIÓN DISPONIBLE EN LÍNEA.** Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en [www.tceq.texas.gov/goto/cid](http://www.tceq.texas.gov/goto/cid). Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

**CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <http://www14.tceq.texas.gov/epic/eComment/> o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087.** Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Bissonnet 136, LLC a la dirección indicada arriba o llamando al Sr. Mike Schultz, P.E. de SKA Consulting, L.P., al (713) 266-6056.

Fecha de emisión 12 de noviembre de 2024

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR INDUSTRIAL WASTEWATER

NEW

Permit No. WQ0005467000

**APPLICATION AND PRELIMINARY DECISION.** Bissonnet 136, LLC, 20 Park Road, Suite G, Burlingame, California 94010, which operates Doty Sand Pit Venture, a facility that owns Doty Sand Pit Venture Landfill and Olshan Demolishing Landfill, both of which are closed Type IV construction and demolition debris landfills, has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit, Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005467000, which authorizes the discharge of treated landfill leachate, contaminated ground water, and contaminated stormwater at a daily average flow not to exceed 500,000 gallons per day. The TCEQ received this application on October 3, 2024.

The facility is located at 12000 Bissonnet Street, in the City of Houston, Harris County, Texas 77099. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.588333,29.683888&level=18>

The effluent is discharged to Harris County Flood Control District (HCFCD) drainage ditch (D120-00-00), thence to Brays Bayou Above Tidal, thence to Houston Ship Channel/Buffalo Bayou Tidal in Segment No. 1007 of the San Jacinto River Basin. The unclassified receiving water uses are limited aquatic life use for HCFCD drainage ditch (D120-00-00) and Brays Bayou Above Tidal. The designated uses for Segment No. 1007 are navigation and industrial water supply. In accordance with Title 30 Texas Administrative Code Section 307.5 and TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review is not required because no intermediate, high or exceptional aquatic-life-use water bodies have been identified in the discharge route. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Alief-David M. Henington Regional Library, 11903 Bellaire Boulevard, Houston, in Harris County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>

**ALTERNATIVE LANGUAGE NOTICE.** Alternative language notice in Spanish is available at <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>. El aviso de idioma alternativo en español está disponible en <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

**PUBLIC COMMENT / PUBLIC MEETING.** You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit written or oral comment or to ask questions about the application. Generally, the TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

**OPPORTUNITY FOR A CONTESTED CASE HEARING.** After the deadline for public comments, the Executive Director will consider the comments and prepare a response to all relevant and material, or significant public comments. **The response to comments, along with the Executive Director's decision on the application, will be mailed to everyone who submitted public comments or who requested to be on a mailing list for this application. If comments are received, the mailing will also provide instructions for requesting a contested case hearing or reconsideration of the Executive Director's decision.** A contested case hearing is a legal proceeding similar to a civil trial in a state district court.

**TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period; and the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.**

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.**

**EXECUTIVE DIRECTOR ACTION.** The Executive Director may issue final approval of the application unless a timely contested case hearing request or a timely request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and requests to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

**MAILING LIST.** If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be added to: (1) the permanent list for a specific applicant name and permit number; and (2) the mailing list for a specific county. If you wish to be placed on the permanent and the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

**All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or electronically at <https://www.tceq.texas.gov/goto/comment> within 30 days from the date of newspaper publication of this notice.**

**INFORMATION AVAILABLE ONLINE.** For details about the status of the application, visit the Commissioners' Integrated Database at <https://www.tceq.texas.gov/goto/cid/>. Search the database using the permit number for this application, which is provided at the top of this notice.

**AGENCY CONTACTS AND INFORMATION.** Public comments and requests must be submitted either electronically at <https://www.tceq.texas.gov/goto/comment>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address, and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, toll free, at 1-800-687-4040 or visit their website at <https://www.tceq.texas.gov/agency/decisions/participation/permitting-participation>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Bissonnet 136, LLC at the address stated above or by calling Mr. Mike Schultz, P.E., SKA Consulting LP at (713) 266-6056.

Issued: December 1, 2025

# Comisión De Calidad Ambiental Del Estado De Texas



## AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA EL PERMISO DEL SISTEMA DE ELIMINACION DE DESCARGAS DE CONTAMINANTES DE TEXAS (TPDES) PARA AGUAS RESIDUALES INDUSTRIALES

NUEVO

PERMISO NO. WQ0005467000

**SOLICITUD Y DECISIÓN PRELIMINAR.** Bissonnet 136, LLC, 20 Park Road, Suite G, Burlingame, California 94010, que opera Doty Sand Pit Venture, una instalación propietaria del vertedero Doty Sand Pit Venture y del vertedero de escombros de demolición Olshan, ambos vertederos clausurados de tipo IV para escombros de construcción y demolición, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) un nuevo para autorizar la descarga de lixiviados tratados de vertedero, aguas subterráneas contaminadas y aguas pluviales contaminadas a un caudal promedio diario que no exceda los 500.00 galones por día. La TCEQ recibió esta solicitud el 3 de octubre de 2024.

Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.588333,29.683888&level=18>

La planta está ubicada en 12000 Bissonnet Street, en la ciudad de Houston en el Condado de Harris, Texas. El efluente tratado es descargado al zanja de drenaje del Distrito de Control de Inundaciones del Condado de Harris (HCFCD) (D120-00-00), de allí a Brays Bayou Above Tidal, y de allí al Canal de navegación de Houston/ Buffalo Bayou Tidal en el Segmento No. 1007 de la Cuenca del Río San Jacinto. Los usos no clasificados de las aguas receptoras son limitados usos de la vida acuática para la zanja de drenaje de HCFCD (D120-00-00) y Brays Bayou Above Tidal. Los usos designados para el Segmento No. 1007 son navegación y provisión de agua a la industria.

De acuerdo con el 30 TAC §307.5 y los procedimientos de implementación de la TCEQ (Enero 2010) para las Normas de Calidad de Aguas Superficiales en Texas, fue realizada una revisión de la antidegradación de las aguas recibidas. Una revisión de antidegradación del Nivel 1 ha determinado preliminarmente que los usos de la calidad del agua existente no serán perjudicados por la acción de este permiso. Se mantendrá un criterio narrativo y numérico para proteger los usos existentes. Esta revisión ha determinado preliminarmente que ninguno de los cuerpos de agua con usos intermedio, alto o excepcional de vida acuática están presentes dentro del acceso para llegar a la corriente; por lo tanto, no se requiere ninguna determinación de degradación del Nivel 2. No se espera ninguna degradación significativa de la calidad del agua en los cuerpos de agua con usos intermedios, elevados o excepcionales de la vida acuática río abajo y que los usos existentes serán mantenidos y protegidos. La determinación preliminar puede ser reexaminada y puede ser modificada, si se recibe alguna información nueva.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en Biblioteca Regional Alief-David M. Henington, 11903 Bellaire Boulevard, Houston, en el condado de Harris, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

**AVISO DE IDIOMA ALTERNATIVO.** El aviso de idioma alternativo en español está disponible en

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

#### **COMENTARIO PUBLICO / REUNION PUBLICA.**

Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

#### **OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.**

Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

**PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS:** su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

**Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.**

**ACCIÓN DEL DIRECTOR EJECUTIVO.** El Director Ejecutivo puede emitir una aprobación final de la solicitud a menos que exista un pedido antes del plazo de vencimiento de una audiencia administrativa de lo contencioso o se ha presentado un pedido de reconsideración. Si un pedido ha llegado antes del plazo de vencimiento de la audiencia o el pedido de reconsideración ha sido presentado, el Director Ejecutivo no emitirá una aprobación final sobre el permiso y enviará la solicitud y el pedido a los Comisionados de la TCEQ para consideración en una reunión programada de la Comisión.

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

**Todos los comentarios escritos del público y los pedidos una reunión deben ser presentados durante los 30 días después de la publicación del aviso a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or por el internet a [www.tceq.texas.gov/about/comments.html](http://www.tceq.texas.gov/about/comments.html).** Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia.

**CONTACTOS E INFORMACIÓN DE LA AGENCIA.** Los comentarios y solicitudes públicas deben enviarse electrónicamente a <https://www14.tceq.texas.gov/epic/eComment/>, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a la TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en [www.tceq.texas.gov/goto/pep](http://www.tceq.texas.gov/goto/pep). Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional de Bissonnet 136, LLC a la dirección indicada arriba o llamando al Sr. Mike Schultz, P.E., SKA Consulting, LP al (713) 266-6056.

Fecha de emisión: 1 de diciembre de 2025.

Jon Niermann, *Chairman*  
Bobby Janecka, *Commissioner*  
Catarina R. Gonzales, *Commissioner*  
Kelly Keel, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

October 3, 2024

Re: Confirmation of Submission of the New Industrial Wastewater Individual Permit Application

Dear Applicant:

This is an acknowledgement that you have successfully completed Industrial Wastewater Individual Permit Application.

ER Account Number: ER108191  
Application Reference Number: 687810  
Authorization Number: WQ0005467000  
Site Name: Doty Sand Pit Venture  
Regulated Entity: RN101288322 - DOTY SAND PIT VENTURE  
Customer(s): CN606018687 - Bissonnet 136, LLC

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at [WQ-ARPTeam@tceq.texas.gov](mailto:WQ-ARPTeam@tceq.texas.gov) or by telephone at (512) 239-4671.

Sincerely,  
Applications Review and Processing Team  
Water Quality Division

**Texas Commission on Environmental Quality**  
New Domestic or Industrial Individual Permit

### Site Information (Regulated Entity)

What is the name of the site to be authorized?	DOTY SAND PIT VENTURE
Does the site have a physical address?	Yes
<b>Physical Address</b>	
Number and Street	12000 BISSONNET ST
City	HOUSTON
State	TX
ZIP	77099
County	HARRIS
Latitude (N) (##.#####)	29.683764
Longitude (W) (-###.#####)	-95.588403
Primary SIC Code	4953
Secondary SIC Code	
Primary NAICS Code	562212
Secondary NAICS Code	

#### Regulated Entity Site Information

What is the Regulated Entity's Number (RN)?	RN101288322
What is the name of the Regulated Entity (RE)?	DOTY SAND PIT VENTURE
Does the RE site have a physical address?	Yes
<b>Physical Address</b>	
Number and Street	12000 BISSONNET ST
City	HOUSTON
State	TX
ZIP	77099
County	HARRIS
Latitude (N) (##.#####)	29.68
Longitude (W) (-###.#####)	-95.59
Facility NAICS Code	
What is the primary business of this entity?	GOLF COURSE

### Bissonn-Customer (Applicant) Information (Owner Operator)

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN606018687
Type of Customer	Corporation
<b>Full legal name of the applicant:</b>	

Legal Name	Bissonnet 136, LLC
Texas SOS Filing Number	803343508
Federal Tax ID	842085503
State Franchise Tax ID	32071037793
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	0-20
Independently Owned and Operated?	Yes
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
<b>Responsible Authority Contact</b>	
Organization Name	Bissonnet 136, LLC
Prefix	
First	Mark
Middle	
Last	Lester
Suffix	
Credentials	
Title	Manager
<b>Responsible Authority Mailing Address</b>	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	20 PARK RD STE G
Routing (such as Mail Code, Dept., or Attn:)	
City	BURLINGAME
State	CA
ZIP	94010
Phone (###-###-####)	6506380900
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	6506380901
E-mail	mlester@landcorealestate.com

## Billing Contact

### Responsible contact for receiving billing statements:

Select the permittee that is responsible for payment of the annual fee.	CN606018687, Bissonnet 136, LLC
Organization Name	Bissonnet 136, LLC
Prefix	

First	Mark
Middle	
Last	Lester
Suffix	
Credentials	
Title	
Enter new address or copy one from list:	CN606018687, Bissonnet 136, LLC
<b>Mailing Address</b>	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	20 PARK RD STE G
Routing (such as Mail Code, Dept., or Attn:)	
City	BURLINGAME
State	CA
ZIP	94010
Phone (###-###-####)	6506380900
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	6506380901
E-mail	mlester@landcorealestate.com

## Application Contact

### Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	SKA Consulting LP
Prefix	
First	Mike
Middle	
Last	Schultz
Suffix	
Credentials	PE
Title	Executive Vice President/Partner
Enter new address or copy one from list:	
<b>Mailing Address</b>	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1888 STEBBINS DR STE 100
Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX
ZIP	77043

Phone (###-###-####)	7132666056
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	7132660996
E-mail	mike.schultz@skaconsulting.com

## Technical Contact

### Person TCEQ should contact for questions about this application:

Same as another contact?	Application Contact
Organization Name	SKA Consulting LP
Prefix	MR
First	Mike
Middle	
Last	Schultz
Suffix	
Credentials	PE
Title	Executive Vice President/Partner

Enter new address or copy one from list:

### Mailing Address

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1888 STEBBINS DR STE 100
Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX
ZIP	77043
Phone (###-###-####)	7132666056
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	7132660996
E-mail	mike.schultz@skaconsulting.com

## DMR Contact

### Person responsible for submitting Discharge Monitoring Report

#### Forms:

Same as another contact?	Technical Contact
Organization Name	SKA Consulting LP
Prefix	MR
First	Mike
Middle	

Last	Schultz
Suffix	
Credentials	PE
Title	Executive Vice President/Partner
Enter new address or copy one from list:	
<b>Mailing Address:</b>	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1888 STEBBINS DR STE 100
Routing (such as Mail Code, Dept., or Attn:)	
City	HOUSTON
State	TX
ZIP	77043
Phone (###-###-####)	7132666056
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	7132660996
E-mail	mike.schultz@skaconsulting.com

## Section 1# Permit Contact

### Permit Contact#: 1

#### Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Technical Contact
2) Organization Name	SKA Consulting LP
3) Prefix	MR
4) First	Mike
5) Middle	
6) Last	Schultz
7) Suffix	
8) Credentials	PE
9) Title	Executive Vice President/Partner
<b>Mailing Address</b>	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	1888 STEBBINS DR STE 100
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	HOUSTON
11.4) State	TX
11.5) ZIP	77043
12) Phone (###-###-####)	7132666056

13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	7132660996
16) E-mail	mike.schultz@skaconsulting.com

## Public Notice Information

### Individual Publishing the Notices

1) Prefix	MR
2) First and Last Name	Mike Schultz
3) Credential	PE
4) Title	Executive Vice President/Partner
5) Organization Name	SKA Consulting
6) Mailing Address	1888 STEBBINS DR
7) Address Line 2	Suite 100
8) City	HOUSTON
9) State	TX
10) Zip Code	77043
11) Phone (###-###-####)	7132666056
12) Extension	
13) Fax (###-###-####)	7132660996
14) Email	mike.schultz@skaconsulting.com

### Contact person to be listed in the Notices

15) Prefix	MR
16) First and Last Name	Mike Schultz
17) Credential	PE
18) Title	Executive Vice President/Partner
19) Organization Name	SKA Consulting
20) Phone (###-###-####)	7132666056
21) Fax (###-###-####)	7132660996
22) Email	mike.schultz@skaconsulting.com

### Bilingual Notice Requirements

23) Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?	Yes
23.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
23.2) Do the students at these schools attend a bilingual education program at another location?	No

- |  |         |
|--|---------|
| 23.3) Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC 89.1205(g)? | No      |
| 23.4) Which language is required by the bilingual program?   | Spanish |

## Section 1# Public Viewing Information

### County#: 1

- |  |   |
|--|---|
| 1) County                              | HARRIS                                    |
| 2) Public building name                | Alief-David M. Henington Regional Library |
| 3) Location within the building        | Alief Community Park                      |
| 4) Physical Address of Building        | 11903 Bellaire Boulevard                  |
| 5) City                                | Houston                                   |
| 6) Contact Name                        |   |
| 7) Phone (###-###-####)                | 8323931820                                |
| 8) Extension                           |   |
| 9) Is the location open to the public? | Yes                                       |

## Owner Information

### Owner of Treatment Facility

- |  |                              |
|--|------------------------------|
| 1) Prefix  | MR                           |
| 2) First and Last Name                           | Mark Lester                  |
| 3) Organization Name                             | Bissonnet 136 LLC            |
| 4) Mailing Address                               | Twenty Park Road, Suite G    |
| 5) City  | Burlingame                   |
| 6) State   | CA                           |
| 7) Zip Code                                      | 94010                        |
| 8) Phone (###-###-####)                          | 6506380900                   |
| 9) Extension                                     |                              |
| 10) Email  | mlester@landcorealestate.com |
| 11) What is ownership of the treatment facility? | Private                      |

### Owner of Land (where treatment facility is or will be)

- |                         |                           |
|-------------------------|---------------------------|
| 12) Prefix              | MR                        |
| 13) First and Last Name | Mark Lester               |
| 14) Organization Name   | Bissonnet 136 LLC         |
| 15) Mailing Address     | Twenty Park Road, Suite G |
| 16) City                | Burlingame                |
| 17) State               | CA                        |
| 18) Zip Code            | 94010                     |

19) Phone (###-###-####)	6506380900
20) Extension	
21) Email	mlester@landcorealestate.com
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

## Admin General Information

1) Is the facility located on or does the treated effluent cross American Indian Land?	No
2) What is the authorization type that you are seeking?	Industrial Wastewater
2.1) Are the discharges at your facility subjected to federal effluent limitation guidelines (ELG) 40 CFR Part 400-471?	Yes
3) What is your facility operational status?	Inactive
4) What is the classification for your authorization?	TPDES
4.1) City nearest the outfall(s):	Houston
4.2) County where the outfalls are located:	HARRIS
4.3) Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?	Yes
4.3.1) What is your right-of-way authorization status?	Authorization Pending
4.4) Is the daily average discharge at your facility of 5 MGD or more?	No
5) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	Yes
5.1) List each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:	Mr. Chris Siegel, P.E. SKA Consulting, L.P.

## Plain Language

1) Plain Language	
[File Properties]	
File Name	LANG_TCEQ 20972 - Plain Language Summary revised.pdf
Hash	9B759F247637058F85600AD630EDD18A0CF4C1E1D2477406E7387BC47094A7AA
MIME-Type	application/pdf

## Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)	
[File Properties]	
File Name	SPIF_SPIF_TCEQ 20971.pdf
Hash	8FDF06FE1D625F0F08474511627A46DA10BD8AB5D8C273FA239390A1F2E1DF32

MIME-Type application/pdf

## Industrial Attachments

1) Have you clearly outlined and labeled the required information on the original full size USGS Topographic Map? Yes

1.1) I certify that I have clearly outlined and labeled the required information on the Topographic map and attached here.

[File Properties]

File Name MAP\_ATT 5.pdf

Hash BD0C89E7E0710937BB4E64B26B937CC90F525100822EA8545A65D71929B97A7F

MIME-Type application/pdf

2) Copy of the proof of contact or approval letter for discharge to public ditch or right-of-way.

[File Properties]

File Name DIS\_HCFCD Discharge Application\_Signed.pdf

Hash 3DFFC81E9C7C90306F592B74DE4C4BDA66BCE06B487E1FDE09A54A918955157E

MIME-Type application/pdf

3) Public Involvement Plan (TCEQ Form 20960)

[File Properties]

File Name PIP\_PIP Form.pdf

Hash C54C6BAF19B6A164AF9F25C73267AB7B54DF3AD00BC4A303E182229FD11DC609

MIME-Type application/pdf

4) Administrative Report 1.1

[File Properties]

File Name ARPT\_Industrial Wastewater Permit  
Administrative Report.pdf

Hash 2C881CB3F4C1B5EC743908FFF4E1E4E7A8FFA140D3859A8F46E5077F1F7514B8

MIME-Type application/pdf

5) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment. Yes

5.1) I confirm that Worksheet 1.0 (EPA Categorical Effluent Guidelines) is complete and included in the Technical Attachment. Yes

5.2) I confirm that Worksheet 4.0 (Receiving Waters) is complete and included in the Technical Attachment. Yes

5.3) Are you planning to include Worksheet 4.1 (Waterbody Physical Characteristics) in the Technical Attachment? Yes

5.4) Are you planning to include Worksheet 6.0 (Industrial Waste Contribution) in the Technical Attachment? No

5.5) Are you planning to include Worksheet 7.0 (Stormwater Discharges Associated with Industrial Activities) to the Technical Yes

## Attachment?

- 5.6) Are you planning to include Worksheet 8.0 (Aquaculture) in the Technical Attachment? No
- 5.7) Are you planning to include Worksheet 9.0 (Class V Injection Well Inventory/Authorization) in the Technical Attachment? No
- 5.8) Are you planning to include Worksheet 10.0 (Quarries in the John Graves Scenic Riverway) in the Technical Attachment? No
- 5.9) Are you planning to include Worksheet 11.0 (Cooling Water System Information) in the Technical Attachment? No
- 5.10) Are you planning to include Worksheet 11.1 (Impingement Mortality) in the Technical Attachment? No
- 5.11) Are you planning to include Worksheet 11.2 (Source Water Biological Data) in the Technical Attachment? No
- 5.12) Are you planning to include Worksheet 11.3 (Entrainment) in the Technical Attachment? No
- 5.13) Technical Attachment

## [File Properties]

File Name TECH\_Industrial Wastewater Permit Technical Report.pdf

Hash BCFF83CA84B987ECBA30E74864B1CC27390C825A0B1BCA784EBD250F27A63F3E

MIME-Type application/pdf

## 6) Affected Landowners Map

## [File Properties]

File Name LANDMP\_ATT 6 Adjacent Property Owners\_Sealed.pdf

Hash 51F69BDC1C00611998669042DF0050C33A9B08CB456CC92C8CFA4EF7C892992F

MIME-Type application/pdf

## 7) Landowners Cross Reference List

## [File Properties]

File Name LANDCRL\_Adjacent Property Owners 2024.pdf

Hash 69C357B4243FB6084C3A358366CEB32C8EC525CE613C9997394C99F40ACF9C5C

MIME-Type application/pdf

## 8) Landowner Avery Template

## [File Properties]

File Name LANDAT\_Bissonnet 136 LLC\_Adjacent Properties Labels.docx

Hash D9F585C365DE1DC0B38400771EF30C46B9A814926018B0146FBD656338F7B114

MIME-Type application/vnd.openxmlformats-officedocument.wordprocessingml.document

## 9) Flow Diagram

## [File Properties]

File Name FLDIA\_ATT 11.pdf  
Hash AC52E35B0510870DB0CE5D6C02D2BAFA2FBD500C94887E1481683C4BEFEB596D  
MIME-Type application/pdf

## 10) Site Drawing

## [File Properties]

File Name SITEDR\_ATT 10.pdf  
Hash 5FCCF0C4F053DFBB56B356E74E97420BE08595F0C385A83A83C68871B805271C  
MIME-Type application/pdf

## 11) Original Photographs

## [File Properties]

File Name ORIGPH\_ATT 8 - Original Photographs.pdf  
Hash 738066C740EF2794860C86B6FB5698F7A6D38DC47557ED258DE8630051225466  
MIME-Type application/pdf

## [File Properties]

File Name ORIGPH\_ATT 8 Original Photograph Map.pdf  
Hash C4C5D430FA4804045C646B1760BCF5C266D72AA426AAEB7AB272A9AF9054A722  
MIME-Type application/pdf

## 12) Design Calculations

## 13) Solids Management Plan

## 14) Water Balance

## [File Properties]

File Name WB\_ATT 11.pdf  
Hash AC52E35B0510870DB0CE5D6C02D2BAFA2FBD500C94887E1481683C4BEFEB596D  
MIME-Type application/pdf

## 15) Other Attachments

## [File Properties]

File Name OTHER\_ATT 10 - EDR Water Well Search.pdf  
Hash E800F216F37743785DAA1C4B6FA028F9AF7918684EB7F93A9FD6D653C4F3DD71  
MIME-Type application/pdf

## [File Properties]

File Name OTHER\_ATT 17 - 40mil-HDPE-  
Geomembrane.pdf  
Hash 3CBDACF83811EF4414214D72F2A44BF4F36A19F02C2D59316F86756507E7D66D  
MIME-Type application/pdf

## [File Properties]

File Name OTHER\_ATT 17 - 60mil-HDPE-  
Geomembrane.pdf

Hash A6A0E985ADA0FBA56F48CFF9034812FD0149A15B45705B58C44D1085B2E5F3B1

MIME-Type application/pdf

## [File Properties]

File Name OTHER\_Select Sheets from 20231201 12KB PH  
1 - MASS GRADING & DETENTION  
RESUBMITTAL.pdf

Hash F7F47919347EA1C264BA3E874BB8E54A0FC8FE0EF2209D880D865BED1B0FFED5

MIME-Type application/pdf

## [File Properties]

File Name OTHER\_Compiled Liner Control Plan.pdf

Hash 823AB62EF141D7AC160CE93EEDFB43811182A4BF6295D15A5DC9A49A79B88742

MIME-Type application/pdf

## [File Properties]

File Name OTHER\_ATT 18 - 2020 Sealed SB & EB  
Logs.pdf

Hash DD43B8CDE6916DF5F6C0215A760593C8156B52ABD50B0D60E9D4158BA3F36960

MIME-Type application/pdf

## [File Properties]

File Name OTHER\_ATT 12 - Lab Analytical Data  
Reports.pdf

Hash 95E922600AC855319F009CCB4E3BEFC501E0A1D9058A3DA63439D898401EF337

MIME-Type application/pdf

## Certification

I certify that I am authorized under 30 Texas Administrative Code 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

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

1. I am Amanda L Hawkins, the owner of the STEERS account ER108191.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.

4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing New Domestic or Industrial Individual Permit.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER OPERATOR Signature: Amanda L Hawkins OWNER OPERATOR

Customer Number:	CN606018687
Legal Name:	Bissonnet 136, LLC
Account Number:	ER108191
Signature IP Address:	67.200.220.226
Signature Date:	2024-10-03
Signature Hash:	DA94C66D5528FC7E67FAF551CBE1AE5096344D509897815240E51A5445193303
Form Hash Code at time of Signature:	CA784249C605C98D9C5D8DA49AB8EFE82F754D4F4A8B40730981571909960A20

## Fee Payment

Transaction by:	The application fee payment transaction was made by ER108191/Amanda L Hawkins
Paid by:	The application fee was paid by MANDI HAWKINS
Fee Amount:	\$1200.00
Paid Date:	The application fee was paid on 2024-10-03
Transaction/Voucher number:	The transaction number is 582EA000627751 and the voucher number is 723840

## Submission

Reference Number:	The application reference number is 687810
Submitted by:	The application was submitted by ER108191/Amanda L Hawkins
Submitted Timestamp:	The application was submitted on 2024-10-03 at 14:18:09 CDT
Submitted From:	The application was submitted from IP address 67.200.220.226
Confirmation Number:	The confirmation number is 568488
Steers Version:	The STEERS version is 6.82

## Additional Information

---

Application Creator: This account was created by Amanda L Hawkins



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST**

**Complete and submit this checklist with the industrial wastewater permit application.**

APPLICANT NAME: Bissonnet 136, LLC

PERMIT NUMBER (If new, leave blank): WQ00\_N/A

**Indicate if each of the following items is included in your application.**

	Y	N		Y	N
Administrative Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Worksheet 8.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Administrative Report 1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Worksheet 9.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPIF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Worksheet 10.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Core Data Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Worksheet 11.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Public Involvement Plan Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Worksheet 11.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Plain Language Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Worksheet 11.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Technical Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Worksheet 11.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original USGS Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Affected Landowners Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Landowner Disk or Labels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 3.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Flow Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 3.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Site Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 3.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Original Photographs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 4.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Design Calculations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 4.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Solids Management Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Water Balance (See Flow Diagram)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 6.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 7.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

**For TCEQ Use Only**

Segment Number \_\_\_\_\_ County \_\_\_\_\_  
 Expiration Date \_\_\_\_\_ Region \_\_\_\_\_  
 Permit Number \_\_\_\_\_



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

This report is required for all applications for TPDES permits and TLAPs, except applications for oil and gas extraction operations subject to 40 CFR Part 435. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report.

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use the Oil and Gas Exploration and Production Administrative Report ([TCEQ Form-20893 and 20893-inst<sup>1</sup>](#)).

### Item 1. Application Information and Fees (Instructions, Page 26)

- a. Complete each field with the requested information, if applicable.
  - Applicant Name: Bissonnet 136, LLC
  - Permit No.: WQ000N/A
  - EPA ID No.: TXON/A
  - Expiration Date: N/A
  
- b. Check the box next to the appropriate authorization type.
  - Industrial Wastewater (wastewater and stormwater)
  - Industrial Stormwater (stormwater only)
  
- c. Check the box next to the appropriate facility status.
  - Active
  - Inactive
  
- d. Check the box next to the appropriate permit type.
  - TPDES Permit
  - TLAP
  - TPDES with TLAP component
  
- e. Check the box next to the appropriate application type.
  - New
  - Renewal with changes
  - Renewal without changes
  - Major amendment with renewal
  - Major amendment without renewal
  - Minor amendment without renewal
  - Minor modification without renewal
  
- f. If applying for an amendment or modification, describe the request: N/A

For TCEQ Use Only

Segment Number \_\_\_\_\_ County \_\_\_\_\_

Expiration Date \_\_\_\_\_ Region \_\_\_\_\_

Permit Number \_\_\_\_\_

<sup>1</sup> [https://www.tceq.texas.gov/publications/search\\_forms.html](https://www.tceq.texas.gov/publications/search_forms.html)  
TCEQ-10411 (01/08/2024) Industrial Wastewater Application Administrative Report

g. Application Fee

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	<input type="checkbox"/> \$350	<input type="checkbox"/> \$350	<input type="checkbox"/> \$315	<input type="checkbox"/> \$150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	<input checked="" type="checkbox"/> \$1,250	<input type="checkbox"/> \$1,250	<input type="checkbox"/> \$1,215	<input type="checkbox"/> \$150
Major facility	N/A <sup>2</sup>	<input type="checkbox"/> \$2,050	<input type="checkbox"/> \$2,015	<input type="checkbox"/> \$450

h. Payment Information

***Mailed***

Check or money order No.: 021581

Check or money order amt.: \$1,250.00

Named printed on check or money order: SKA Consulting, L.P.

***Epay***

Voucher number: N/A

Copy of voucher attachment: N/A

**Item 2. Applicant Information (Instructions, Pages 26)**

a. Customer Number, if applicant is an existing customer: CN605724707

**Note:** Locate the customer number using the [TCEQ's Central Registry Customer Search](#)<sup>3</sup>.

b. Legal name of the entity (applicant) applying for this permit: Bissonnet 136, LLC

**Note:** The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Mr. Full Name (Last/First Name): Lester, Mark

Title: Manager

Credential: N/A

d. Will the applicant have overall financial responsibility for the facility?

Yes  No

<sup>2</sup> All facilities are designated as minors until formally classified as a major by EPA.

<sup>3</sup> <https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch>

Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.

### Item 3. Co-applicant Information (Instructions, Page 27)

Check this box if there is no co-applicant.; otherwise, complete the below questions.

a. Legal name of the entity (co-applicant) applying for this permit: N/A

**Note:** The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

b. Customer Number (if applicant is an existing customer): CNN/A

**Note:** Locate the customer number using the TCEQ's Central Registry Customer Search.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: N/A Full Name (Last/First Name): N/A

Title: N/A Credential: N/A

d. Will the co-applicant have overall financial responsibility for the facility?

Yes  No

**Note:** The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.

### Item 4. Core Data Form (Instructions, Pages 27)

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: 2

### Item 5. Application Contact Information (Instructions, Page 27)

Provide names of two individuals who can be contact for additional information about this application. Indicate if the individual can be contact about administrative or technical information, or both.

a.  Administrative Contact .  Technical Contact

Prefix: Mr. Full Name (Last/First Name): Lester, Mark

Title: Manager Credential: N/A

Organization Name: Bissonnet 136, LLC

Mailing Address: Twenty Park Road, Suite G City/State/Zip: Burlingame, CA 94010

Phone No: (650) 638-0900 Email: mlester@landcorealestate.com

b.  Administrative Contact  Technical Contact

Prefix: Mr. Full Name (Last/First Name): Schultz, Mike P.E.

Title: Executive Vice President & Partner Credential: Professional Engineer

Organization Name: SKA Consulting, L.P.

Mailing Address: 1888 Stebbins Drive, Suite 100 City/State/Zip: Houston, TX 77043

Phone No: (713) 266-6056      Email: mike.schultz@skaconsulting.com

Attachment: N/A

### **Item 6. Permit Contact Information (Instructions, Page 28)**

Provide two names of individuals that can be contacted throughout the permit term.

- a. Prefix: Mr.    Full Name (Last/First Name): Lester, Mark  
Title: Manager                      Credential: N/A  
Organization Name: Bissonnet 136, LLC  
Mailing Address: Twenty Park Road, Suite G      City/State/Zip: Burlingame, CA 94010  
Phone No: (650) 638-0900      Email: mlester@landcorealestate.com
- b. Prefix: Mr.    Full Name (Last/First Name): Schultz, Mike P.E.  
Title: Executive Vice President & Partner      Credential: Professional Engineer  
Organization Name: SKA Consulting, L.P.  
Mailing Address: 1888 Stebbins Drive, Suite 100      City/State/Zip: Houston, TX 77043  
Phone No: (713) 266-6056      Email: mike.schultz@skaconsulting.com
- Attachment: N/A

### **Item 7. Billing Contact Information (Instructions, Page 28)**

The permittee is responsible for paying the annual fee. The annual fee will be assessed for permits **in effect on September 1 of each year**. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (form TCEQ-20029).

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

Prefix: Mr.    Full Name (Last/First Name): Lester, Mark  
Title: Manager                      Credential: N/A  
Organization Name: Bissonnet 136, LLC  
Mailing Address: Twenty Park Road, Suite G      City/State/Zip: Burlingame, CA 94010  
Phone No: (650) 683-0900      Email: mlester@landcorealestate.com

### **Item 8. DMR/MER Contact Information (Instructions, Page 28)**

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. **Note:** DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Prefix: Mr.    Full Name (Last/First Name): Schultz, Mike, P.E.  
Title: Executive Vice President & Partner      Credential: Professional Engineer  
Organization Name: SKA Consulting, L.P.  
Mailing Address: 1888 Stebbins Drive      City/State/Zip: Houston, TX 77043  
Phone No: (713) 266-6056      Email: mike.schultz@skaconsulting.com

## Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Mr. Full Name (Last/First Name): Schultz, Mike P.E.

Title: Executive Vice President & Partner Credential: Professional Engineer

Organization Name: SKA Consulting, L.P.

Mailing Address: 1888 Stebbins Drive, Suite 100 City/State/Zip: Houston, TX 77043

Phone No: (713) 266-6056 Email: mike.schultz@skaconsulting.com

b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)

E-mail: mike.schultz@skaconsulting.com

Fax: N/A

Regular Mail (USPS)

Mailing Address: N/A

City/State/Zip Code: N/A

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): Schultz, Mike P.E.

Title: Executive Vice President & Partner Credential: Professional Engineer

Organization Name: SKA Consulting, L.P.

Phone No: (713) 266-6056 Email: mike.schultz@skaconsulting.com

d. Public Viewing Location Information

**Note:** If the facility or outfall is located in more than one county, provide a public viewing place for each county.

Public building name: Alief-David M. Henington Regional Library Location within the building: Alief Community Park

Physical Address of Building: 11903 Bellaire Boulevard

City: Houston County: Harris

e. Bilingual Notice Requirements

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

Yes  No

If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?  
 Yes  No
3. Do the students at these schools attend a bilingual education program at another location?  
 Yes  No
4. Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)?  
 Yes  No  N/A
5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish
- f. Plain Language Summary Template - Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: 4
- g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: 3

## Item 10. Regulated Entity and Permitted Site Information (Instructions Page 29)

- a. TCEQ issued Regulated Entity Number (RN), if available: RN101288322

**Note:** If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search the TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.

- b. Name of project or site (the name known by the community where located): Doty Sand Pit Venture Landfill and Olshan Demolishing Landfill

- c. Is the location address of the facility in the existing permit the same?

Yes  No  N/A (new permit)

**Note:** If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or Williamson County, additional information concerning protection of the Edwards Aquifer may be required.

- d. Owner of treatment facility:

Prefix: N/A Full Name (Last/First Name): N/A

or Organization Name: N/A

Mailing Address: N/A

City/State/Zip: N/A

Phone No: N/A

Email: N/A

- e. Ownership of facility:  Public  Private  Both  Federal

- f. Owner of land where treatment facility is or will be: Bissonnet 136, LLC

Prefix: Mr. Full Name (Last/First Name): Lester, Mark

or Organization Name: Bissonnet 136, LLC

Mailing Address: Twenty Park Road, Suite G City/State/Zip: Burlingame, CA 94010

Phone No: (650) 638-0900 Email: mlester@landcorealestate.com

**Note:** If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: N/A

g. Owner of effluent TLAP disposal site (if applicable): N/A

Prefix: N/A Full Name (Last/First Name): N/A

or Organization Name: N/A

Mailing Address: N/A

City/State/Zip: N/A

Phone No: N/A

Email: N/A

**Note:** If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: N/A

h. Owner of sewage sludge disposal site (if applicable):

Prefix: N/A Full Name (Last/First Name): N/A

or Organization Name: N/A

Mailing Address: N/A

City/State/Zip: N/A

Phone No: N/A

Email: N/A

**Note:** If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: N/A

## Item 11. TD PES Discharge/TLAP Disposal Information (Instructions, Page 31)

a. Is the facility located on or does the treated effluent cross Native American Land?

Yes  No

b. Attach an original full size USGS Topographic Map (or an 8.5"×11" reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.

One-mile radius

Three-miles downstream information

Applicant's property boundaries

Treatment facility boundaries

Labeled point(s) of discharge

Highlighted discharge route(s)

Effluent disposal site boundaries

All wastewater ponds

Sewage sludge disposal site

New and future construction

Attachment: 5

c. Is the location of the sewage sludge disposal site in the existing permit accurate?

Yes  No or New Permit

If no, or a new application, provide an accurate location description: N/A

d. Are the point(s) of discharge in the existing permit correct?

Yes  No or New Permit

If no, or a new application, provide an accurate location description: The point of discharge is proposed to be located at the northeastern corner of the Olshan Demolishing Landfill into the Harris County Flood Control District drainage ditch (D120-00-00)

e. Are the discharge route(s) in the existing permit correct?

Yes  No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: The proposed route of discharge will flow from the Harris County Flood Control District drainage ditch (D120-00-00) to Brays Bayou Above Tidal (Segment ID 1007B)

f. City nearest the outfall(s): Houston

g. County in which the outfalls(s) is/are located: Harris County

h. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

Yes  No

If yes, indicate by a check mark if:  Authorization granted  Authorization pending

For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: 15

For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: N/A

i. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

Yes  No or New Permit  N/A

If no, or a new application, provide an accurate location description: N/A

j. City nearest the disposal site: Houston, TX

k. County in which the disposal site is located: Harris County

l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: N/A

m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: N/A

## Item 12. Miscellaneous Information (Instructions, Page 33)

- a. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

Yes  No

If yes, list each person: Mr. Chris Siegel, P.E., SKA Consulting, L.P.

- b. Do you owe any fees to the TCEQ?

Yes  No

If yes, provide the following information:

Account no.: N/A

Total amount due: N/A

- c. Do you owe any penalties to the TCEQ?

Yes  No

If yes, provide the following information:

Enforcement order no.: N/A

Amount due: N/A

**Item 13. Signature Page (Instructions, Page 33)**

Permit No: WQ000 N/A

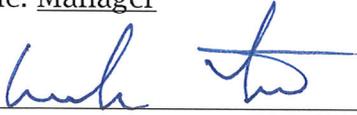
Applicant Name: Bissonnet 136, LLC

Certification: I, Mark Lester, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Mark Lester

Signatory title: Manager

Signature:   
(Use blue ink)

Date: 8-30-2024

Subscribed and Sworn to before me by the said Mark Daniel Lester  
on this 30 day of August, 2024.  
My commission expires on the 22 day of April, 2026.

  
Notary Public

[SEAL]



County San Mateo,  
County, Texas CA

*Note: If co-applicants are necessary, each entity must submit an original, separate signature page.*

# INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

## Item 1. Affected Landowner Information (Instructions, Page 35)

- a. Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.
- The applicant's property boundaries.
  - The facility site boundaries within the applicant's property boundaries.
  - The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.
  - The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
  - The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.
  - The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.
  - The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.
  - The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.
  - The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.
  - The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.
  - The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.

Attachment: 6

- b. Check the box next to the format of the landowners list:

Readable/Writeable CD                       Four sets of labels

Attachment: 7

- d. Provide the source of the landowners' names and mailing addresses: Harris County Appraisal District (HCAD)

- e. As required by Texas Water Code § 5.115, is any permanent school fund land affected by this application?

Yes  No

If yes, provide the location and foreseeable impacts and effects this application has on the land(s): N/A

## Item 2. Original Photographs (Instructions, Page 37)

Provide original ground level photographs. Check the box next to each of the following items to indicate it is included.

- At least one original photograph of the new or expanded treatment unit location.
- At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
- At least one photograph of the existing/proposed effluent disposal site.
- A plot plan or map showing the location and direction of each photograph.

Attachment: 8

# **INDUSTRIAL WASTEWATER PERMIT APPLICATION**

## **SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)**

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

**Attachment:** 2

# WATER QUALITY PERMIT PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if mailing the payment. (Instructions, Page 36-37)

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- Do not mail this form with the application form.
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier's Office, MC-214  
P.O. Box 13088  
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier's Office, MC-214  
12100 Park 35 Circle  
Austin, Texas 78753

Fee Code: WQP      Permit No: WQ000N/A

1. Check or Money Order Number: 021581
2. Check or Money Order Amount: \$1,250.00
3. Date of Check or Money Order: September 5, 2024
4. Name on Check or Money Order: SKA Consulting, L.P.
5. APPLICATION INFORMATION

Name of Project or Site: Doty Sand Pit Venture Landfill and Olshan Demolishing Landfill

Physical Address of Project or Site: 12000 Bissonnet Street

If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.

Attachment: N/A

**SKA CONSULTING, LP**  
1888 STEBBINS DRIVE, SUITE 100  
HOUSTON, TX 77043

COMERICA BANK  
www.comerica.com

32-75/1110  
492

021581

DATE

September 5, 2024

PAY

One Thousand Two Hundred Fifty and 00/100 Dollars

AMOUNT

\$1,250.00

TO THE  
ORDER  
OF

Texas Commission on Environmental Quality  
P.O. Box 13088  
MC 214  
Austin, TX 78711-3088



AUTHORIZED SIGNATURE

# ATTACHMENT 1

## INDIVIDUAL INFORMATION

### Item 1. Individual information (Instructions, Page 38)

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

Prefix (Mr., Ms., or Miss): N/A

Full legal name (first, middle, and last): N/A

Driver's License or State Identification Number: N/A

Date of Birth: N/A

Mailing Address: N/A

City, State, and Zip Code: N/A

Phone No.: N/A

Fax No.: N/A

E-mail Address: N/A

CN: N/A

# INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

Below is a list of common deficiencies found during the administrative review of industrial wastewater permit applications. To ensure the timely processing of this application, please review the items below and indicate each item is complete and in accordance applicable rules at 30 TAC Chapters 21, 281, and 305 by checking the box next to the item. If an item is not required this application, indicate by checking N/A where appropriate. Please do not submit the application until all items below are addressed.

- Core Data Form (TCEQ Form No. 10400)  
*(Required for all applications types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)*
- Correct and Current Industrial Wastewater Permit Application Forms  
*(TCEQ Form Nos. 10055 and 10411. Version dated 5/10/2019 or later.)*
- Water Quality Permit Payment Submittal Form (Page 14)  
*(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)*
- 7.5 Minute USGS Quadrangle Topographic Map Attached  
*(Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments.)*
- N/A  Current/Non-Expired, Executed Lease Agreement or Easement Attached
- N/A  Landowners Map  
*(See instructions for landowner requirements.)*

### Things to Know:

- All the items shown on the map must be labeled.
- The applicant's complete property boundaries must be delineated which includes boundaries of contiguous property owned by the applicant.
- The applicant cannot be its own adjacent landowner. You must identify the landowners immediately adjacent to their property, regardless of how far they are from the actual facility.
- If the applicant's property is adjacent to a road, creek, or stream, the landowners on the opposite side must be identified. Although the properties are not adjacent to applicant's property boundary, they are considered potentially affected landowners. If the adjacent road is a divided highway as identified on the USGS topographic map, the applicant does not have to identify the landowners on the opposite side of the highway.

- N/A  Landowners Cross Reference List  
*(See instructions for landowner requirements.)*
- N/A  Landowners Labels or CD-RW attached  
*(See instructions for landowner requirements.)*
- Original signature per 30 TAC § 305.44 - Blue Ink Preferred  
*(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached.)*
- Plain Language Summary

# **Plain Language Summary for Texas Pollutant Discharge Elimination System (TPDES) Permit Application**

## **Individual Industrial Wastewater Application**

Bissonnet 136, LLC (CN606018687) is the property owner for the Doty Sand Pit Venture (DSPV) Landfill (RN101288322), an 118.778-acre closed landfill (Municipal Solid Waste [MSW] Permit No. 1247) and the Olshan Demolishing Landfill (RN101288322), an 18.11-acre closed landfill (MSW Permit No. 1259, revoked). The facility is located at 12000 Bissonnet Street in Houston, Harris County, Texas 77099. This permit application is for the discharge of wastewater encountered during the excavation of the utility trenches, drainage ditches, and detention basins during the development activities of the facility.

Discharges from the facility for this authorization are expected to contain stormwater that does come in contact with the landfill waste during the development activities and the landfill leachate encountered during the development activities. These wastewater discharges will be treated using the excavated detention basins as settlement treatment ponds. The treated wastewater flows into the Harris County Flood Control District ditch D120-00-00 and ultimately into Brays Bayou.

## **PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ ENMIENDAS DE TPDES**

### **AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES**

Bissonnet 136, LLC (CN606018687) es el propietario de la propiedad del vertedero Doty Sand Pit Venture (DSPV) (RN101288322), un vertedero cerrado de 118,779 acres (Número de permiso para Residuos Sólidos Municipales [MSW] 1247) y del vertedero de demolición Olshan (RN101288322), un vertedero cerrado de 18,11 acres (Permiso de MSW No. 1259, revocado). La instalación está ubicada en 12000 Bissonnet Street, en Houston, Condado de Harris, Texas 77099. Esta solicitud de permiso es para la descarga de aguas residuales encontradas durante la excavación de zanjas de servicios públicos, zanjas de drenaje y cuencas de detención durante las actividades de desarrollo de la instalación.

Se espera que las descargas de la instalación contengan aguas pluviales que no entren en contacto con los desechos del vertedero, las aguas pluviales sí entran en contacto con los desechos del vertedero durante las actividades de desarrollo y el lixiviado del vertedero que se encuentra durante las actividades de desarrollo. Estas descargas de aguas residuales se tratarán utilizando los estanques de detención excavados como estanques de tratamiento de sedimentación. Las aguas residuales tratadas fluyen hacia la zanja D120-00-00 del Distrito de Control de Inundaciones del Condado de Harris y, finalmente, hacia Brays Bayou.



Texas Commission on Environmental Quality

## Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

### Section 1. Preliminary Screening

New Permit or Registration Application

New Activity - modification, registration, amendment, facility, etc. (see instructions)

**If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.**

### Section 2. Secondary Screening

Requires public notice,

Considered to have significant public interest, **and**

Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

**If all the above boxes are not checked, a Public Involvement Plan is not necessary.  
Stop after Section 2 and submit the form.**

Public Involvement Plan not applicable to this application. Provide **brief** explanation.



## Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

**Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.**

(City)

(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

City

County

Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

**Section 6. Planned Public Outreach Activities**

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

Yes No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

Yes No

If Yes, please describe.

**If you answered “yes” that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.**

(c) Will you provide notice of this application in alternative languages?

Yes No

**Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.**

If yes, how will you provide notice in alternative languages?

- Publish in alternative language newspaper
- Posted on Commissioner’s Integrated Database Website
- Mailed by TCEQ’s Office of the Chief Clerk
- Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

Yes No

(e) If a public meeting is held, will a translator be provided if requested?

Yes No

(f) Hard copies of the application will be available at the following (check all that apply):

- TCEQ Regional Office
- TCEQ Central Office
- Public Place (specify)

**Section 7. Voluntary Submittal**

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

Yes No

What types of notice will be provided?

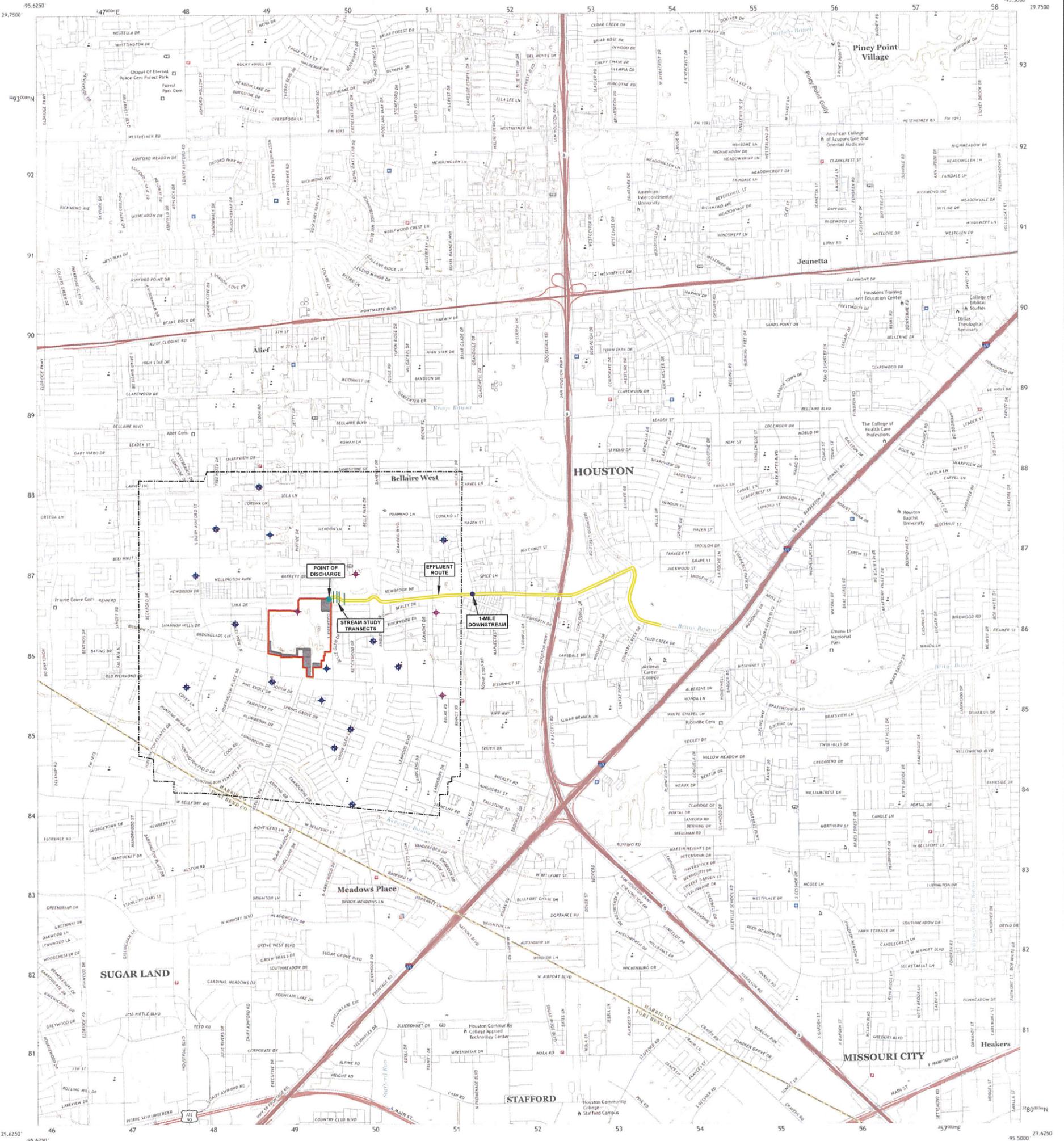
- Publish in alternative language newspaper
- Posted on Commissioner’s Integrated Database Website
- Mailed by TCEQ’s Office of the Chief Clerk
- Other (specify)



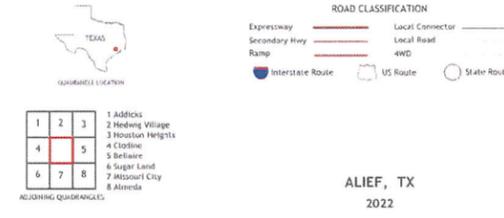
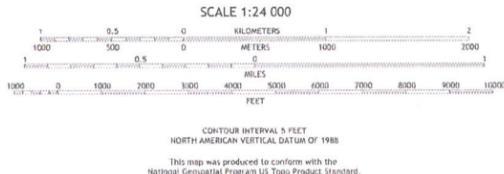
U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY



ALIEF QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES

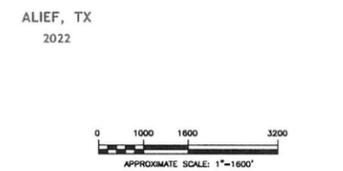
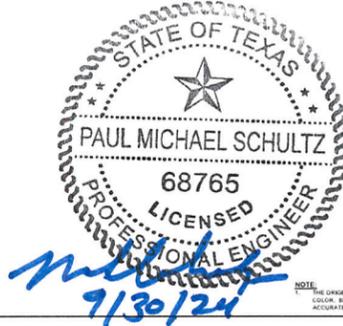


Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 15R  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands with government  
reservations may not be shown. Obtain permission before  
entering private lands.



- SUBJECT PROPERTY BOUNDARY
- ONE-MILE RADIUS
- DISCHARGE ROUTE (3-MILES DOWNSTREAM)
- NEW AND FUTURE CONSTRUCTION
- PRIVATE DRINKING WATER WELL LOCATION
- PUBLIC SUPPLY WATER WELL LOCATION
- OTHER WATER WELL LOCATION

REFERENCE USGS 7.5-MINUTE TOPOGRAPHIC QUADRANGLE  
ALIEF, TEXAS 2022



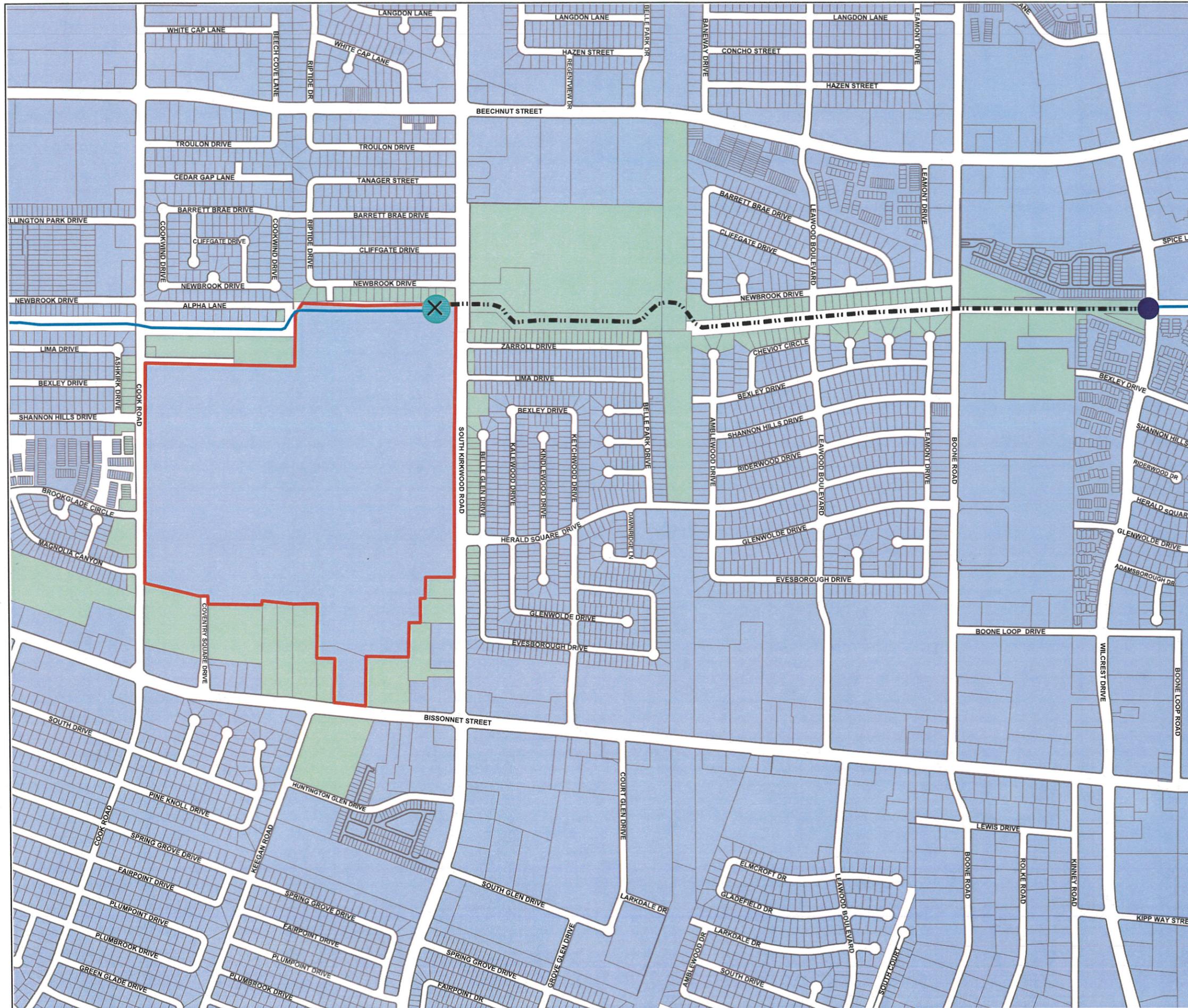
skA CONSULTING, L.P.  
1888 STEINBURG DR, STE 100  
HOUSTON, TEXAS 77054  
Texas Registered Engineering Firm F-005009  
Texas Registered Geosience Firm 50311

USGS TOPOGRAPHIC MAP

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION  
DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
CALHAN DEMOLISHING LANDFILL (MSW 1209 REVOKED)  
12000 BISSCHNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS 77099

DATE: SEPTEMBER 2024 JOB NO: 5019-0003 SCALE: AS SHOWN  
DRAWN BY: MSH  
CHECKED BY: CSJ  
APPROVED BY: PMS

ATTACH 5

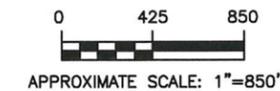


**LEGEND**

- APPLICANT PROPERTY AND FACILITY BOUNDARY
- STREET
- PARCELS
- ADJACENT PROPERTIES
- ⊗ POINT OF DISCHARGE
- TREATMENT FACILITY (SEDIMENTATION POND)
- 1-MILE DOWNSTREAM
- - - - - EFFLUENT ROUTE
- HCFC D120-00-00 DITCH

**NOTES:**

1. THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.
2. THIS DRAWING HAS BEEN PREPARED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER OR GEOLOGIST. DO NOT ALTER THIS DOCUMENT IN ANY WAY WITHOUT THE WRITTEN CONSENT OF SKA CONSULTING, L.P.



**SKA CONSULTING, L.P.**  
 1888 STEBBINS DRIVE, SUITE 100  
 HOUSTON, TEXAS 77043  
 Texas Registered Engineering Firm F-005009  
 Texas Registered Geoscience Firm 50011

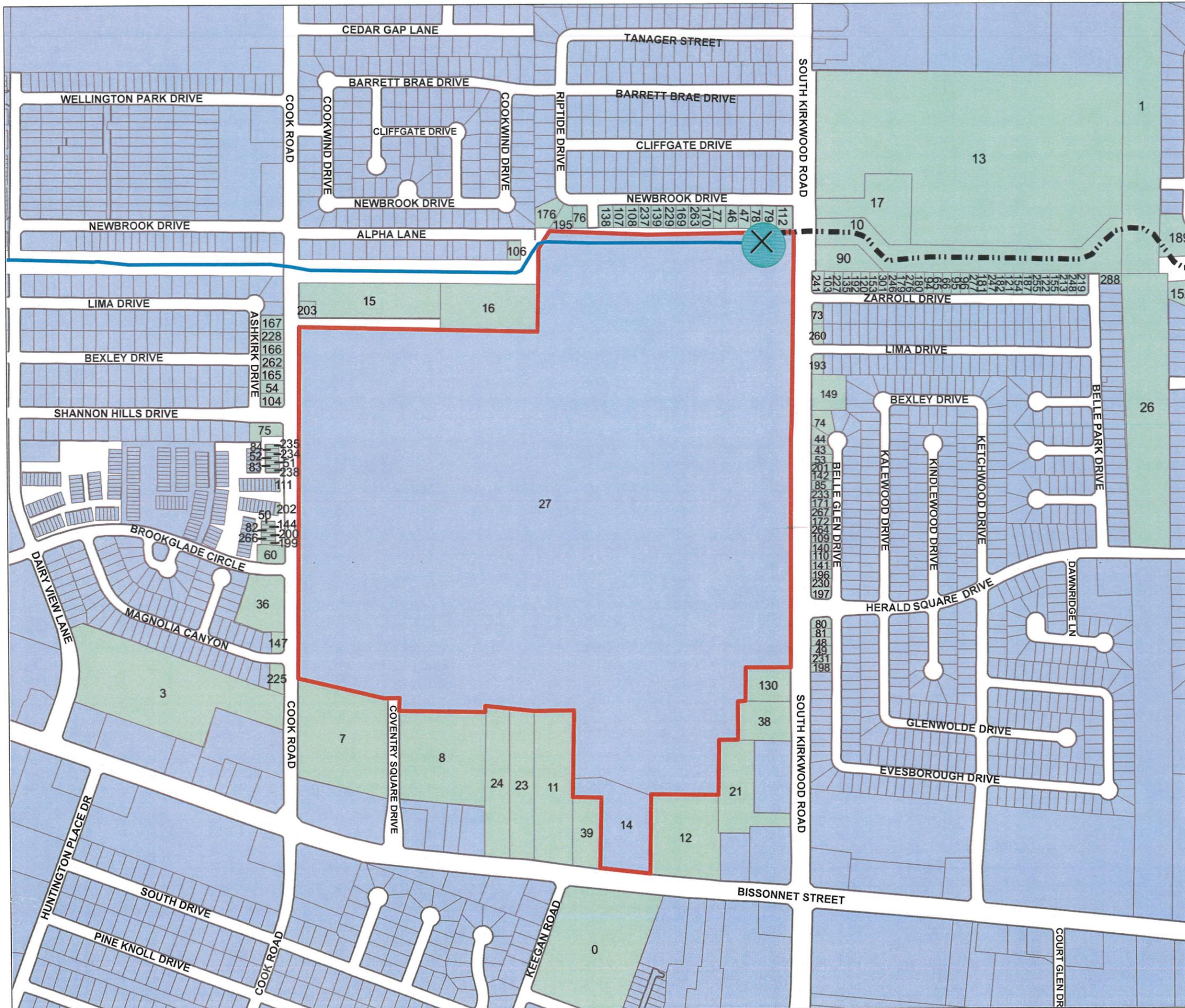
**LANDOWNERS MAP**

ATTACH  
**6**

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION  
 DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
 OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
 12000 BISSONNET STREET  
 HOUSTON, HARRIS COUNTY, TEXAS 77099

DATE: SEPTEMBER 2024	JOB NO: 5019-0003	SCALE: AS SHOWN
1 FIRST REVISION	-	DRAWN BY: MLH
2 SECOND REVISION	-	CHECKED BY: CLS
3 THIRD REVISION	-	APPROVED BY: PMS



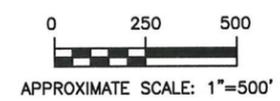


**LEGEND**

- APPLICANT PROPERTY AND FACILITY BOUNDARY
- STREET
- PARCELS
- ADJACENT PROPERTIES
- ⊗ POINT OF DISCHARGE
- TREATMENT FACILITY (SEDIMENTATION POND)
- - - - - EFFLUENT ROUTE
- HCFCD D120-00-00 DITCH

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**ska** SKA CONSULTING, L.P.  
 1888 STEBBINS DRIVE, SUITE 100  
 HOUSTON, TEXAS 77043  
 Texas Registered Engineering Firm F-005009  
 Texas Registered Geoscience Firm 50011

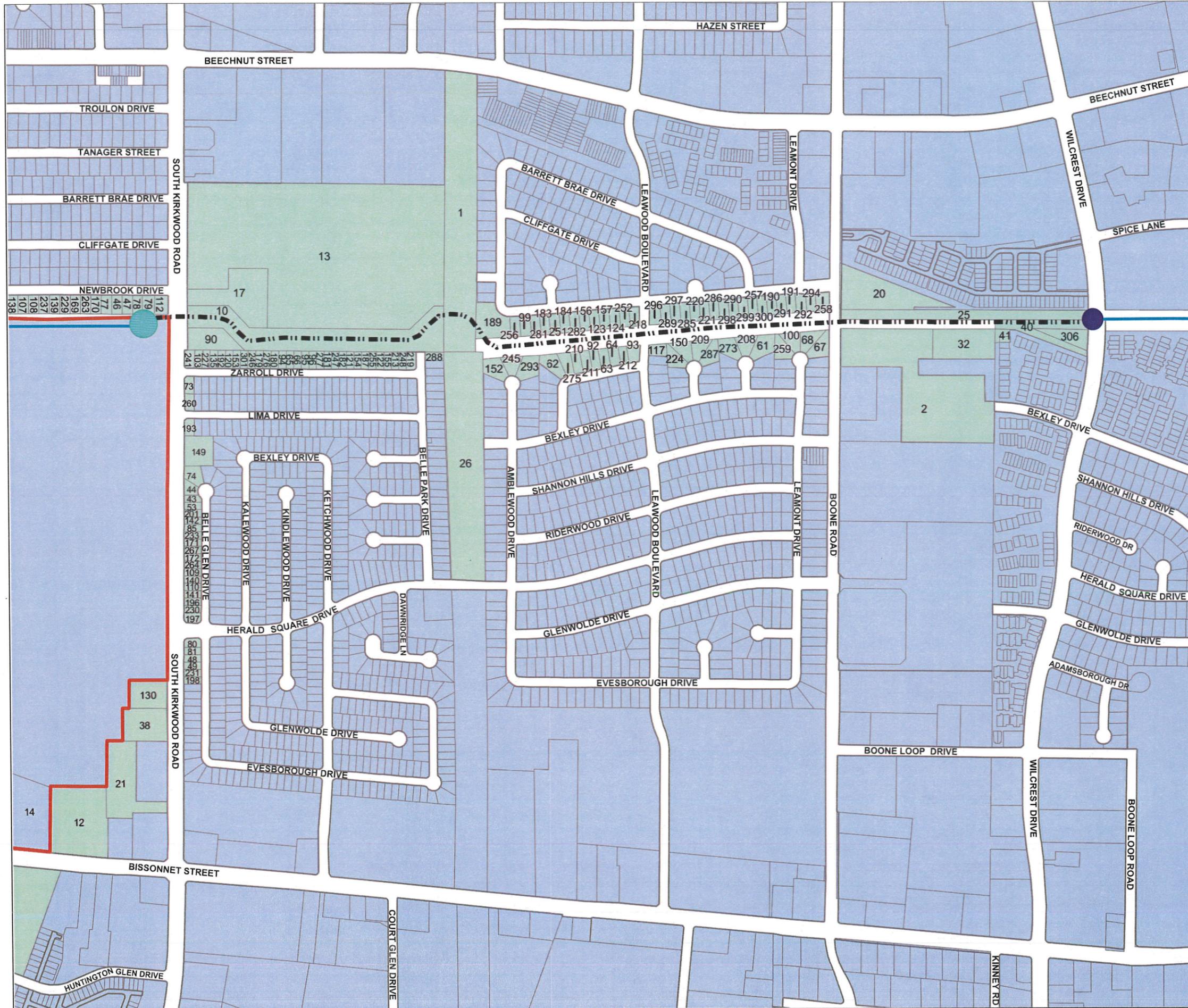
**LANDOWNERS MAP DETAIL**

ATTACH  
**6A**

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION  
 DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
 OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
 12000 BISSONNET STREET  
 HOUSTON, HARRIS COUNTY, TEXAS 77099

DATE: SEPTEMBER 2024	JOB NO: 5019-0003	SCALE: AS SHOWN
1 FIRST REVISION	-	DRAWN BY: MLH
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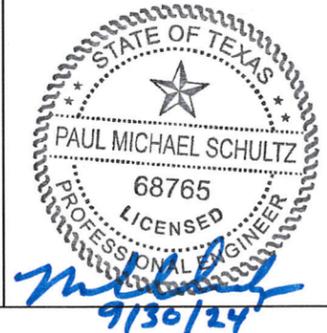
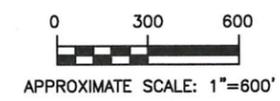


**LEGEND**

- APPLICANT PROPERTY AND FACILITY BOUNDARY
- STREET
- ▭ PARCELS
- ▭ ADJACENT PROPERTIES
- ✕ POINT OF DISCHARGE
- TREATMENT FACILITY (SEDIMENTATION POND)
- 1-MILE DOWNSTREAM
- - - - - EFFLUENT ROUTE
- HCFC D120-00-00 DITCH

**NOTES:**

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**ska** SKA CONSULTING, L.P.  
 1888 STEBBINS DRIVE, SUITE 100  
 HOUSTON, TEXAS 77043  
 Texas Registered Engineering Firm F-005009  
 Texas Registered Geoscience Firm 50011

**LANDOWNERS MAP - DETAIL**

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION  
 DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
 OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
 12000 BISSONNET STREET  
 HOUSTON, HARRIS COUNTY, TEXAS 77099

DATE: SEPTEMBER 2024	JOB NO: 5019-0003	SCALE: AS SHOWN
1 FIRST REVISION	-	DRAWN BY: MLH
2 SECOND REVISION	-	CHECKED BY: CLS
3 THIRD REVISION	-	APPROVED BY: PMS

ATTACH  
**6B**



ADJACENT LANDOWNERS CROSS-REFERENCE TABLE  
INDUSTRIAL WASTEWATER PERMIT APPLICATION  
DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS

Property Number	Owner Name	Mailing Address	City	State	Zip Code
0	HUNTINGTON GLEN SWNG TIC 1 LLC	183 WILSON ST STE 358	BROOKLYN	NY	11211-7578
1	CENTERPOINT ENERGY HOU ELE	PROPERTY TAX DEPT 38TH FLR	HOUSTON	TX	77251-1475
2	HUNTER 8601 LLC	8601 BOONE RD STE 8	HOUSTON	TX	77099-1678
3	NPTH INVESTMENTS LP	4622 RIVERSTONE BLVD	MISSOURI CITY	TX	77459-6141
4	SHRI RADHA KRISHNA TEMPLE	11325 BISSONNET ST	HOUSTON	TX	77099-2049
5	WAL-MART REAL ESTATE	PO BOX 8050	BENTONVILLE	AR	72712-8055
6	VIETNAMESE CONGREGATION OF	3146 MARKSCOTT DR	HOUSTON	TX	77082-3478
7	GCH THE VICTORIAN LLC	15021 KATY FWY STE 580	HOUSTON	TX	77094-1900
8	COVENTRY EQUITY PARTNERS LLC	9401 COVENTRY SQUARE DR	HOUSTON	TX	77099-1455
9	UNITE STATES POSTAL	ADDRESS UNKNOWN	HOUSTON	TX	77002
10	COUNTY OF HARRIS	PO BOX 1525	HOUSTON	TX	77251
11	NASRUL-LAHI-IL-FATHI SOCIETY OF HOUSTON	9630 KEEGAN RD	HOUSTON	TX	77099-2501
12	SIENNA PLAZA LLC	11916 BISSONNET ST STE 180	HOUSTON	TX	77099-1478
13	BISHOP OF THE DIOCESE OF	GALVESTON-HOUSTON	HOUSTON	TX	77001-0907
14	BISSONNET 136 LLC	22310 GRAND CORNER DR STE 140	KATY	TX	77494-7467
15	DURAN RAFAEL A & LORENA	6102 DE MOSS DR	HOUSTON	TX	77081-4216
16	HARRIS COUNTY WCID NO 123	1001 PRESTON ST	HOUSTON	TX	77002-1839
17	FIRST FILIPINO AMERICAN	UNITED METHODIST	HOUSTON	TX	77071-3005
18	TRANSCOVENT INVESTMENTS LLC	PO BOX 18287	SUGAR LAND	TX	77496-8287
19	BOONE STORAGE OWNER LLC	PO BOX 638	ADDISON	TX	75001-0638
20	HOUSTON GATEWAY ACADEMY INC	3400 EVERGREEN DR	HOUSTON	TX	77087-3715
21	YASSIR ENTERPRISES LLC	14429 AUTO PARK WAY	HOUSTON	TX	77083-5766
22	DHANJI GROUP LLC	10714 BALIVCAR COURT	RICHMOND	TX	77407-2468
23	DN77 ADVANCE INVESTMENT INC CORP	10711 UMBER COURT	HOUSTON	TX	77099-4038
24	MOUNTAIN OF FIRE & MIRACLES MINISTRIES	12142 BISSONNET	HOUSTON	TX	77099-1414
25	HOUSTON GATEWAY ACADEMY INC	3400 EVERGREEN DR	HOUSTON	TX	77087-3715
26	CENTERPOINT ENERGY HOU ELE	PROPERTY TAX DEPT 38TH FLR	HOUSTON	TX	77251-1475
27	BISSONNET 136 LLC	22310 GRAND CORNER DR STE 140	KATY	TX	77494-7467
28	EC ASPEN PARK LLC	105 TALLAPOOSA ST STE 300	MONTGOMERY	AL	36104-2655
29	NEW FRONTIER PARTNERS LTD	PO BOX 550648	HOUSTON	TX	77255-0648
30	WIN AN LIMITED PARTNERSHIP	6102 BRIAR TERRACE DR	HOUSTON	TX	77072-1512
31	YASSIR ENTERPRISES LLC	14429 AUTO PARK WAY	HOUSTON	TX	77083-5766
32	CITY OF HOUSTON	PO BOX 1562	HOUSTON	TX	77251-1562
33	HOUSTON GATEWAY ACADEMY INC	3400 EVERGREEN DR	HOUSTON	TX	77087-3715
34	HYDERABAD MALL LLC	10707 W BELLFORT ST	HOUSTON	TX	77099-4748
35	ADVANCE STORES COMPANY INC	5008 AIRPORT RD NW	ROANOKE	VA	24012-1601
36	MOUNTAIN OF FIRE	11222 BEECHNUT ST	HOUSTON	TX	77072-4234
37	MANNING UTILITY DIST	ADDRESS UNKNOWN	HOUSTON	TX	77002
38	SOUTHWESTERN BELL TELE CO	1010 PINE ST 9E-L-01	SAINT LOUIS	MO	63101-2015
39	SOUTHWEST REGION CONFERENCE	2215 LANARK AVE	DALLAS	TX	75203-4528
40	CITY OF HOUSTON	PO BOX 1562	HOUSTON	TX	77251-1562
41	GLENSHANNON T/H ASSOC	3200 WILCREST DR STE 110	HOUSTON	TX	77042-3560
42	ROYAL PARK HOMES LLC	9624 S KIRKWOOD RD	HOUSTON	TX	77099-2539
43	ARANDA JOSE G	8714 BELLE GLEN DR	HOUSTON	TX	77099-1502

ADJACENT LANDOWNERS CROSS-REFERENCE TABLE  
INDUSTRIAL WASTEWATER PERMIT APPLICATION  
DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS

Property Number	Owner Name	Mailing Address	City	State	Zip Code
44	PINON MARICELA D	8710 BELLE GLEN DR	HOUSTON	TX	77099-1502
45	CURRENT OWNER	6210 JASON ST	HOUSTON	TX	77074-7516
46	MYINT TAY T	11919 NEWBROOK DR	HOUSTON	TX	77072-4011
47	SOTOCONDE JOSE S	11915 NEWBROOK DR	HOUSTON	TX	77072-4011
48	BOTOR DANTE B	9110 BELLE GLEN DR	HOUSTON	TX	77099-1939
49	RAMOS SAUL A GOMEZ	6555 HARBOR TOWN DR APT 801	HOUSTON	TX	77036-4039
50	GAITAN DOLORES CECILIA	12300 BROOKGLADE CIR UNIT 126	HOUSTON	TX	77099-1373
51	TRUONG VANNA	12300 BROOKGLADE UNIT 103	HOUSTON	TX	77099-1369
52	RAMIREZ SANTIAGO I	12300 BROOKGLADE CIR UNIT 102	HOUSTON	TX	77099-1369
53	LE CUONG TIET	8802 BELLE GLEN DR	HOUSTON	TX	77099-1504
54	IBARRA PAULINO	8807 ASHKIRK DR	HOUSTON	TX	77099-1303
55	NORBOEV TURSUNALI	9215 DAIRY VIEW LN	HOUSTON	TX	77099-6403
56	CHUKWUDINSO ONYEJUBA LIVING TRUST	1327 WILD MUSTANG TRL	RICHMOND	TX	77406-3096
57	YAX ABEL & JUANA	12403 MAGNOLIA CYN	HOUSTON	TX	77099-6409
58	DO HANG THI	7322 RANCHO MISSION DR	HOUSTON	TX	77083-4504
59	ODEBUNMI TIMOTHY O	9115 REGENTS COVE CT	HOUSTON	TX	77099-6413
60	MANDALA ROBERT	9050 COOK RD STE 200	HOUSTON	TX	77099-1457
61	CHIN SIEW TONG & MEI CHUN	8607 RICHARD ARMS CIR	HOUSTON	TX	77099-1669
62	BAHENA YAZMIN C	153 COLTS NECK RD	FARMINGDALE	NJ	07727-3638
63	MARCELO TITA ESTATE OF	11414 CHEVIOT CIR	HOUSTON	TX	77099-1614
64	VO BI VAN & NGUYET	11410 CHEVIOT CIR	HOUSTON	TX	77099-1614
65	NGUYEN THU T	11726 ZARROLL DR	HOUSTON	TX	77099-1561
66	DAM HIEU VAN & DO OANH KIM	11722 ZARROLL DR	HOUSTON	TX	77099-1561
67	HERNANDEZ RAFAEL & INES TAMAYO	8607 LEAMONT DR	HOUSTON	TX	77099-1661
68	MARTINEZ RAFAEL ANTONIO	8603 LEAMONT DR	HOUSTON	TX	77099-1661
69	ROYAL PARK HOMES LLC	9624 S KIRKWOOD RD	HOUSTON	TX	77099-2539
70	ROYAL PARK HOMES LLC	9624 S KIRKWOOD RD	HOUSTON	TX	77099-2539
71	BURGER KING COMPANY LLC	5707 BLUE LAGOON DR	MIAMI	FL	33126-2015
72	NORIEGA FRANCISCO J	8706 KALEWOOD DR	HOUSTON	TX	77099-1521
73	TRUONG HA V	11839 ZARROLL DR	HOUSTON	TX	77099-1562
74	PATTERSON JACQUELINE	1510 FALL WOOD DR	SUGAR LAND	TX	77479-6278
75	BROOKFIELD IMP ASSOC INC	PO BOX 285	ALIEF	TX	77411-0285
76	CADELINIA MICHELLE	8526 RIPTIDE DR	HOUSTON	TX	77072-4020
77	MARTINEZ CONNIE & IGNACIO	6307 VIA ESPANA DR	HOUSTON	TX	77083-1420
78	TURRUBIARTES SALVADOR & ISIDRA	11911 NEWBROOK DR	HOUSTON	TX	77072-4011
79	VALDEZ FIDEL & MARIA H	11907 NEWBROOK DR	HOUSTON	TX	77072-4011
80	ERAZO LUIS A & MARISA	9102 BELLE GLEN DR	HOUSTON	TX	77099-1939
81	GAMBOA ALEJANDRO R JR & JULIE A	9106 BELLE GLEN DR	HOUSTON	TX	77099-1939
82	FLORES MICHAEL	12127 SHADOWHOLLOW DR	HOUSTON	TX	77082-8308
83	AYALA ROGER E	12300 BROOKGLADE CIR UNIT 104	HOUSTON	TX	77099-1369
84	EBANKS BOBSIE I	12300 BROOKGLADE CIR UNIT 100	HOUSTON	TX	77099-1369
85	DURAN TONY	8814 BELLE GLEN DR	HOUSTON	TX	77099-1504
86	DERAMIREZ MARIA TREJO	12339 MAGNOLIA CANYON	HOUSTON	TX	77099-6407

ADJACENT LANDOWNERS CROSS-REFERENCE TABLE  
INDUSTRIAL WASTEWATER PERMIT APPLICATION  
DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS

Property Number	Owner Name	Mailing Address	City	State	Zip Code
87	ORAELOSI OKWUDILI GREGORY	12335 MAGNOLIA CYN	HOUSTON	TX	77099-6407
88	VU DIANA-DZUNG NHI	3435 LAKERIDGE CANYON DR	SUGAR LAND	TX	77498-7477
89	NGUYEN CALVIN & VUI T	9119 REGENTS COVE CT	HOUSTON	TX	77099-6413
90	ELIAS EID	3215 SHADOWLEAF DR	HOUSTON	TX	77082-2359
91	JACKSON JAMES EDWARD	11438 CHEVIOT CIR	HOUSTON	TX	77099-1614
92	JARAMILLO ANTONIO FLORES	12718 PALM DESERT LN	HOUSTON	TX	77099-2919
93	PHAM CHAU HONG	11402 CHEVIOT CIR	HOUSTON	TX	77099-1614
94	HOBBS ALMA L	11730 ZARROLL DR	HOUSTON	TX	77099-1561
95	REAL ROCK LLC	7447 HARWIN dr STE 218	HOUSTON	TX	77036-2015
96	VENTURA RAMON	11714 ZARROLL DR	HOUSTON	TX	77099-1561
97	ARNAIZ ANGEL	8806 AMBLEWOOD DR	HOUSTON	TX	77099-1606
98	VASQUEZ ALBERTO MAX	8406 AMBLEWOOD DR	HOUSTON	TX	77072-4204
99	CANALES CRISTOBAL	11445 NEWBROOK DR	HOUSTON	TX	77072-4231
100	DE PAZ MARIO E	8602 LEAMONT DR	HOUSTON	TX	77099-1661
101	REBMAN DANIEL H & LAURIE M	1502 ASHFORD HOLLOW LN	HOUSTON	TX	77077-3904
102	BELLO MOJEED A	12307 MAGNOLIA CYN	HOUSTON	TX	77099-6407
103	FERRER ALEX BACANI	11830 ZARROLL DR	HOUSTON	TX	77099-1563
104	DOSAL MARIA J	8811 ASHKIRK DR	HOUSTON	TX	77099-1303
105	NG KING WA	11714 RASTELLO LN	RICHMOND	TX	77406-4661
106	ANZALDUA SOFIA	12107 ALPHA ST	HOUSTON	TX	77072-4821
107	TRAN KHANG MINH	12023 NEWBROOK	HOUSTON	TX	77072-4013
108	NINO DANIEL	12019 NEWBROOK DR	HOUSTON	TX	77072-4013
109	NGUYEN DIEP N LA & HOA H	8918 BELLE GLEN DR	HOUSTON	TX	77099-1506
110	AMAYA SERVANSO & ESTER M	9006 BELLE GLEN DR	HOUSTON	TX	77099-1508
111	GUERRA EVELIN NINETH ESPINO	12300 BROOKGLADE CIR UNIT 106	HOUSTON	TX	77099-1370
112	NGUYEN QUANG MNH	11903 NEWBROOK DR	HOUSTON	TX	77072-4011
113	PEREZ FELIPE A ET UX	12435 MAGNOLIA CYN	HOUSTON	TX	77099-6409
114	BUNGE MATTHIAS A	251 CRESTMONT DR	SAN FRANCISCO	CA	94131-1016
115	HE YOU L	12306 MAGNOLIA CYN	HOUSTON	TX	77099-6406
116	ANGUS VINCENT P	11754 BEXLEY DR	HOUSTON	TX	77099-1565
117	NORMAN JAMES DEVERIL	8603 LEAWOOD BLVD	HOUSTON	TX	77099-1664
118	BAZAN ARACELY C	8802 AMBLEWOOD DR	HOUSTON	TX	77099-1606
119	MARTINEZ PEDRO & M L	8610 AMBLEWOOD DR	HOUSTON	TX	77099-1602
120	DUONG SON B	11818 ZARROLL DR	HOUSTON	TX	77099-1563
121	PHAM BINH Q	11634 ZARROLL DR	HOUSTON	TX	77099-1559
122	NGO LOAN KIM THI	11618 ZARROLL DR	HOUSTON	TX	77099-1559
123	CHEN SEN-TSUEN	2842 COTTON STOCK DR	SUGAR LAND	TX	77479-1421
124	AHMAD MOHAMED S	11411 NEWBROOK DR	HOUSTON	TX	77072-4231
125	SORTO MARTHA C	8506 AMBLEWOOD DR	HOUSTON	TX	77072-4206
126	HERNANDEZ BLANCA	8418 AMBLEWOOD DR	HOUSTON	TX	77072-4204
127	FUENTES RAMIRO	9503 RAVENSWORTH DR	HOUSTON	TX	77031-3504
128	THONGDARA YU	8414 AMBLEWOOD DR	HOUSTON	TX	77072-4204
129	CARREON ROSENDO	8814 AMBLEWOOD DR	HOUSTON	TX	77099-1606
130	FLAGSHIP INVESTMENT LLC	9226 S KIRKWOOD RD	HOUSTON	TX	77099-1929

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12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS

Property Number	Owner Name	Mailing Address	City	State	Zip Code
131	ABAD KASHIF	12170 BISSONNET ST	HOUSTON	TX	77099-1414
132	LEON LEOBARDO	12150 BISSONNET ST	HOUSTON	TX	77099-1414
133	ROYAL PARK HOMES LLC	9624 S KIRKWOOD RD	HOUSTON	TX	77099-2539
134	ROYAL PARK HOMES LLC	9624 S KIRKWOOD RD	HOUSTON	TX	77099-2539
135	FERRER ALEX & LEONERVA I	11830 ZARROLL DR	HOUSTON	TX	77099-1563
136	SAGASTUME HILMA	9711 EMERY HILL DR	SUGAR LAND	TX	77498-1011
137	CORTEZ APOLONIO F	PO BOX 1281	ALIEF	TX	77411-1281
138	DIEP HAI VAN & MAI LE HAI	12027 NEWBROOK DR	HOUSTON	TX	77072-4013
139	COMBS DEMETRIS	12011 NEWBROOK DR	HOUSTON	TX	77072-4013
140	ALVAREZ ROBERTO A	9002 BELLE GLEN DR	HOUSTON	TX	77099-1508
141	TZOC JUAN GREGORIO	9010 BELLE GLEN DR	HOUSTON	TX	77099-1508
142	FAROOQ BUSHRA S	12515 BROOK MEADOWS LN	STAFFORD	TX	77477-1641
143	LUSK ALLEN L	42 CRESTWOOD CIRCLE	SUGAR LAND	TX	77478-3914
144	WEYMON JOSEPH R III	12300 BROOKGLADE CIR UNIT 127	HOUSTON	TX	77099-1373
145	VARGAS JOE P	12503 MAGNOLIA CYN	HOUSTON	TX	77099-6411
146	GARCIA OSCAR A & SANDRA E	12431 MAGNOLIA CYN	HOUSTON	TX	77099-6409
147	GONZALEZ JOSE J	12302 MAGNOLIA CYN	HOUSTON	TX	77099-6406
148	NGUYEN HA TRONG & LIEN THI BICH	11827 LIMA DR	HOUSTON	TX	77099-1554
149	NEW BEGINNING COMM BAPT CH	2110 PEACHWOOD DR	MISSOURI CITY	TX	77489-5019
150	MARTINEZ EMILIO VALLEJO	8602 MAYRIDGE CIR	HOUSTON	TX	77099-1666
151	CORVERA FRANCISCO S	8718 AMBLEWOOD DR	HOUSTON	TX	77099-1604
152	STROER RONALD H ESTATE OF	PO BOX 20605	HOUSTON	TX	77225-0605
153	FLORES RAMON A	11814 ZARROLL DR	HOUSTON	TX	77099-1563
154	HERNANDEZ JAVIER D	9907 KRONE CT	HUMBLE	TX	77396-3380
155	PHAN LOAN T	11614 ZARROLL DR	HOUSTON	TX	77099-1559
156	WERRE ROBERT E	11423 NEWBROOK DR	HOUSTON	TX	77072-4231
157	VARGAS DULCE E	11415 NEWBROOK DR	HOUSTON	TX	77072-4231
158	SORTO CARLOS E & MARTA C	8506 AMBLEWOOD DR	HOUSTON	TX	77072-4206
159	JONES JETER DOROTHY	8410 AMBLEWOOD DR	HOUSTON	TX	77072-4204
160	VENEGAS JOSE N	8607 LEAWOOD BLVD	HOUSTON	TX	77099-1664
161	REYES TEOFILO A	12327 MAGNOLIA CYN	HOUSTON	TX	77099-6407
162	ROYAL PARK HOMES LLC	9624 S KIRKWOOD RD	HOUSTON	TX	77099-2539
163	ROYAL PARK HOMES LLC	9624 S KIRKWOOD RD	HOUSTON	TX	77099-2539
164	BUREY HUBERT D & RUTH	11834 LIMA DR	HOUSTON	TX	77099-1555
165	ALANIS MIGUEL A	8803 ASHKIRK DR	HOUSTON	TX	77099-1303
166	LUU UT THI	8719 ASHKIRK DR	HOUSTON	TX	77099-1301
167	DAUSSIN FRANCES A & KERRY P	8711 ASHKIRK DR	HOUSTON	TX	77099-1301
168	GG PROPERTIES LLC	12826 MURPHY RD	STAFFORD	TX	77477-3902
169	NGUYEN TAI THE	12003 NEWBROOK DR	HOUSTON	TX	77072
170	JACKSON RONALD J	11927 NEWBROOK DR	HOUSTON	TX	77072-4011
171	BHATIA SHYAM	9555 W SAM HOUSTON PKWY S APT 347	HOUSTON	TX	77099-2145
172	MCDONALD WENDELL & OTILA	8910 BELLE GLEN DR	HOUSTON	TX	77099-1506
173	MANZANAREZ JOSE	12423 MAGNOLIA CYN	HOUSTON	TX	77099-6409
174	VILLALOBOS GUADALUPE	12415 MAGNOLIA CYN	HOUSTON	TX	77099-6409

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HOUSTON, HARRIS COUNTY, TEXAS

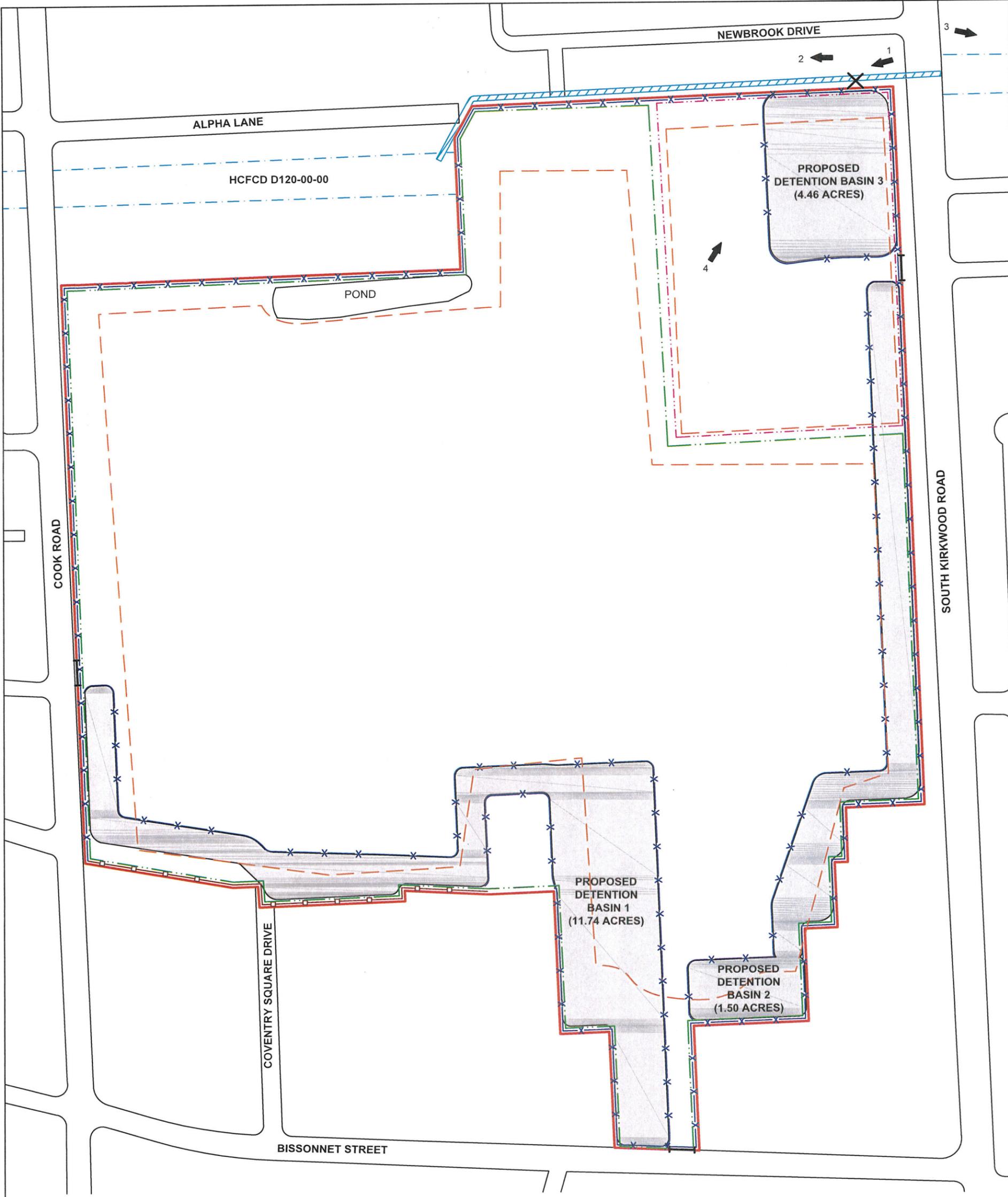
Property Number	Owner Name	Mailing Address	City	State	Zip Code
175	RODRIGUEZ MARIO A & PATRICIA	12103 NEWBROOK DR	HOUSTON	TX	77072-4844
176	VAZQUEZ JAIME C	8518 RIPTIDE DR	HOUSTON	TX	77072-4020
177	NGUYEN THANH KIM	12322 MAGNOLIA CYN	HOUSTON	TX	77099-6406
178	POWELL JOEY E	8710 AMBLEWOOD DR	HOUSTON	TX	77099-1604
179	JACOBS LOOKMAN & LINDA F	11802 ZARROLL DR	HOUSTON	TX	77099-1563
180	HERNANDEZ MARLENE	11734 ZARROLL DR	HOUSTON	TX	77099-1561
181	MARTINEZ SERGIO & GILMA	11706 ZARROLL DR	HOUSTON	TX	77099-1561
182	GARCIA ADRIAN ESTATE OF	11638 ZARROLL DR	HOUSTON	TX	77099-1559
183	SAUCEDO AUGUSTIN A	11439 NEWBROOK DR	HOUSTON	TX	77072-4231
184	SOK SAN	10015 HALSTON DR	SUGAR LAND	TX	77498-2784
185	CURRENT OWNER	PO BOX 440543	HOUSTON	TX	77244-0543
186	MUNOZ SANJUANA GONZALEZ	8906 AMBLEWOOD DR	HOUSTON	TX	77099-1608
187	ALBARRAN SILVIA NAJERA LOERA & MAXIMINO	1310 VILLAGE CT BLVD	ROSENBERG	TX	77471-6129
188	AREVALO LILIAN E	8610 MAYRIDGE CIR	HOUSTON	TX	77099-1666
189	GONZALES INGRID V	12927 CLAREWOOD DR	HOUSTON	TX	77072-1711
190	DO THUY-GIAO H	11223 NEWBROOK DR	HOUSTON	TX	77072-4238
191	MARTINEZ GRACIELA	11215 NEWBROOK DR	HOUSTON	TX	77072-4238
192	GIUOCO AARON	11822 ZARROLL DR	HOUSTON	TX	77099-1563
193	NGUYEN TUYET A	11839 LIMA DR	HOUSTON	TX	77099-1554
194	GALLEGOS JOSE	8702 KALEWOOD DR	HOUSTON	TX	77099-1521
195	ROBLES FIDEL & DAENA	8522 RIPTIDE DR	HOUSTON	TX	77072-4020
196	GARCIA MAYRA	9014 BELLE GLEN DR	HOUSTON	TX	77099-1508
197	HO THU V & TRAN T LE	9022 BELLE GLEN DR	HOUSTON	TX	77099-1508
198	NGUYEN THU	9122 BELLE GLEN DR	HOUSTON	TX	77099-1939
199	FLANAGAN MARK E	12300 BROOKGLADE CIR UNIT 131	HOUSTON	TX	77099-1374
200	IBARRA JOSE G	12300 BROOKGLADE CIR UNIT 129	HOUSTON	TX	77099-1373
201	UMANA ADALINDA S	8806 BELLE GLEN DR	HOUSTON	TX	77099-1504
202	ALI SYED S & ANGELA	11849 BISSONNET ST	HOUSTON	TX	77099-1904
203	CITY OF HOUSTON	PARCEL CY1-005	HOUSTON	TX	77251-1562
204	MARIANO JIMMY M & MARICIEL F	12507 MAGNOLIA CYN	HOUSTON	TX	77099-6411
205	MANDUJANO AGUSTIN	9103 REGENTS COVE CT	HOUSTON	TX	77099-6413
206	VO BINH K	12314 MAGNOLIA CYN	HOUSTON	TX	77099-6406
207	QUIJANO VICTOR M & DORA	8703 BELLE GLEN DR	HOUSTON	TX	77099-1502
208	ZUNIGA BENIGNO & LUISA	8602 RICHARD ARMS CIR	HOUSTON	TX	77099-1669
209	KENNEDY RICHARD L	8603 MAYRIDGE CIR	HOUSTON	TX	77099-1666
210	ROMERO JOEL	11426 CHEVIOT CIR	HOUSTON	TX	77099-1614
211	TALAVARI TONY	11422 CHEVIOT CIR	HOUSTON	TX	77099-1614
212	CORDERO RAUL	11406 CHEVIOT CIR	HOUSTON	TX	77099-1614
213	KIRKWOOD VILLAGE HOA	11000 CORPORATE CENTRE DR STE 150	HOUSTON	TX	77041-5179
214	REYES HIPOLITO	8614 AMBLEWOOD DR	HOUSTON	TX	77099-1602
215	NGO TRUONG Q	8622 AMBLEWOOD DR	HOUSTON	TX	77099-1602
216	HUYNH MUOI BA VAN	8322 AMBLEWOOD DR	HOUSTON	TX	77072-4202
217	VAN NGUYEN THANH	8318 AMBLEWOOD DR	HOUSTON	TX	77072-4202
218	NGUYEN HOAI THI THANH	11403 NEWBROOK DR	HOUSTON	TX	77072-4231

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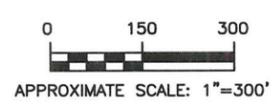
Property Number	Owner Name	Mailing Address	City	State	Zip Code
219	KIRKWOOD VILLAGE HOA	11000 CORPORATE CENTRE DR STE 150	HOUSTON	TX	77041-5179
220	LOPEZ ANICETO	11323 NEWBROOK DR	HOUSTON	TX	77072-4240
221	HIDALGO CARLOS & PENNY	11319 NEWBROOK DR	HOUSTON	TX	77072-4240
222	REYES EFRAIN	8611 RICHARD ARMS CIR	HOUSTON	TX	77099-1669
223	MADRID MIGUEL	4314 BRAYSWORTH DR	HOUSTON	TX	77072-1822
224	GUTIERREZ BENITO & MARIA	8606 MAYRIDGE CIR	HOUSTON	TX	77099-1666
225	FLORES FIDEL & CELINA	12303 MAGNOLIA CYN	HOUSTON	TX	77099-6407
226	ROYAL PARK HOMES LLC	9624 S KIRKWOOD RD	HOUSTON	TX	77099-2539
227	GUEVARA HENRY	11834 ZARROLL DR	HOUSTON	TX	77099-1563
228	HA AMY	1814 BRIGHTLAKE WAY	MISSOURI CITY	TX	77459-1661
229	PHAM CHI	12007 NEWBROOK DR	HOUSTON	TX	77072-4013
230	NGUYEN MARIE C	9018 BELLE GLEN DR	HOUSTON	TX	77099-1508
231	AMALU EMMANUEL & ROSE	9118 BELLE GLEN DR	HOUSTON	TX	77099-1939
232	IGUH CHRISTOPHER JR	PO BOX 669	STAFFORD	TX	77497-0669
233	NOLASCO JOSE G ET UX	8818 BELLE GLEN DR	HOUSTON	TX	77099-1504
234	OFILI SUNDAY JOSEPH	12300 BROOKGLADE CIR UNIT 101	HOUSTON	TX	77099-1369
235	JASSO MARCIAL	12300 BROOKGLADE CIR UNIT 99	HOUSTON	TX	77099-1368
236	ISAGAN LIZA	11835 ZARROLL DR	HOUSTON	TX	77099-1562
237	CHAVEZ ANTONIETA D	12015 NEWBROOK DR	HOUSTON	TX	77072-4013
238	VASQUEZ R LAURA	12300 BROOKGLADE CIR UNIT 105	HOUSTON	TX	77099-1369
239	ZHANG SIYAO	12411 MAGNOLIA CYN	HOUSTON	TX	77099-6409
240	BUI LIEN	77033 GRANITE TERRACE LN	HOUSTON	TX	77083-
241	VONG SY QUAY	11838 ZARROLL DR	HOUSTON	TX	77099-1563
242	NGUYEN THIEP B	8514 RIPTIDE DR	HOUSTON	TX	77072-4020
243	ROYAL PARK HOMES LLC	9624 S KIRKWOOD RD	HOUSTON	TX	77099-2539
244	SHAH ANIL K K	8706 AMBLEWOOD DR	HOUSTON	TX	77099-1604
245	GARCIA SAMUEL	8602 AMBLEWOOD DR	HOUSTON	TX	77099-1602
246	GILES CARLFRED D & TARA L	11806 ZARROLL DR	HOUSTON	TX	77099-1563
247	HUERTA LETICIA	11702 ZARROLL DR	HOUSTON	TX	77099-1561
248	KIRKWOOD VILLAGE HOA	11000 CORPORATE CENTRE DR STE 150	HOUSTON	TX	77041-5179
249	MEDRANO PEDRO & SARA	8626 AMBLEWOOD DR	HOUSTON	TX	77099-1602
250	BREAUNINGER VIVIAN L	8402 AMBLEWOOD DR	HOUSTON	TX	77072-4204
251	TORRES BARRERA YESENIA	11435 NEWBROOK DR	HOUSTON	TX	77072-4231
252	CABRERA ARNULFO & SILVIANA	11407 NEWBROOK DR	HOUSTON	TX	77072-4231
253	NGUYEN TU T	8611 LEAMONT DR	HOUSTON	TX	77099-1661
254	SALGADO MIGUEL	8910 AMBLEWOOD DR	HOUSTON	TX	77099-1608
255	NGUYEN MIKE	11003 WOODDALE BRIDGE CT	SUGAR LAND	TX	77498-1289
256	NGUYEN JACQUES T & MARTHA T	12330 ASHFORD HOLLOW DR	SUGAR LAND	TX	77478-6176
257	GUANDIQUE ANA	9315 VICKIJOHN DR	HOUSTON	TX	77031-1732
258	TRAN DUNG & LILLIE	11203 NEWBROOK DR	HOUSTON	TX	77072-4238
259	BUSTILLO ELBA	8606 LEAMONT DR	HOUSTON	TX	77099-1661
260	NGUYEN VAN CHIEM	11838 LIMA DR	HOUSTON	TX	77099-1555
261	FERNANDEZ IDALIA	11835 LIMA DR	HOUSTON	TX	77099-1554
262	VELAZQUEZ HECTOR Z & ISIDRA P	8723 ASHKIRK DR	HOUSTON	TX	77099-1301

ADJACENT LANDOWNERS CROSS-REFERENCE TABLE  
INDUSTRIAL WASTEWATER PERMIT APPLICATION  
DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS

Property Number	Owner Name	Mailing Address	City	State	Zip Code
263	BERRIOS MANUEL	11931 NEWBROOK DR	HOUSTON	TX	77072-4011
264	GALAN OSCAR A & PATRICIA R	8914 BELLE GLEN DR	HOUSTON	TX	77099-1506
265	NGUYEN KHOA	9202 BELLE GLEN DR	HOUSTON	TX	77099-1941
266	PFIRMAN RICHARD L	2611 CYPRESS CREEK PKWY STE A102	HOUSTON	TX	77068-3730
267	HOME SFR BORROWER LLC	3505 KOGER BLVD STE 400	DULUTH	GA	30096-7672
268	AGUILAR VICENTE	12511 MAGNOLIA CANYON	HOUSTON	TX	77099-6411
269	PALACIOS JOSE J	12419 MAGNOLIA CYN	HOUSTON	TX	77099-6409
270	CERVANTES PEDRO	12331 MAGNOLIA CANYON	HOUSTON	TX	77099-6407
271	LE TINH THI	12318 MAGNOLIA CYN	HOUSTON	TX	77099-6406
272	WILLIAM BROCKMANN	8523 COOKWIND DR	HOUSTON	TX	77072-4814
273	SARMIENTO GERARDO	8606 RICHARD ARMS CIR	HOUSTON	TX	77099-1669
274	SOTO SERGIO G	8714 AMBLEWOOD DR	HOUSTON	TX	77099-1604
275	GAMEZ ROLAND & DORA	11430 CHEVIOT CIR	HOUSTON	TX	77099-1614
276	CHICAS SANTOS A	11738 ZARROLL DR	HOUSTON	TX	77099-1561
277	NHAN JIMMY C & JUDY	11710 ZARROLL DR	HOUSTON	TX	77099-1561
278	ORTIZ GABRIEL &	8810 AMBLEWOOD DR	HOUSTON	TX	77099-1606
279	GONZALEZ RUBI	8618 AMBLEWOOD DR	HOUSTON	TX	77099-1602
280	HERNANDEZ JUANA	8314 AMBLEWOOD DR	HOUSTON	TX	77072-4202
281	NGUYEN ANNETTE T	5506 LINDEN CHASE LN	HOUSTON	TX	77066-3221
282	LEI ZI F	9222 STROUD DR	HOUSTON	TX	77036-5226
283	BH BROTHERS ESTATES LLC	2710 JOHN RALSTON RD	HOUSTON	TX	77013-4835
284	NORMAN YOLANDA L	3939 N MACGREGOR WAY	HOUSTON	TX	77004-6517
285	ALONSO MARIA F	11327 NEWBROOK DR	HOUSTON	TX	77072-4240
286	MAZZINI JOSE G & MARIA D	11315 NEWBROOK DR	HOUSTON	TX	77072-4240
287	LOZANO SALVADOR	8607 MAYRIDGE CIR	HOUSTON	TX	77099-1666
288	PARADISE LIVING INC	7919 CANDLEGREEN LN	HOUSTON	TX	77071-2710
289	TRAN TICH Q & VINH Q	11335 NEWBROOK DR	HOUSTON	TX	77072-4240
290	MARCIA RICARDO & MARIA D	11307 NEWBROOK DR	HOUSTON	TX	77072-4240
291	LE VIET HONG	11219 NEWBROOK DR	HOUSTON	TX	77072-4238
292	VEGA LETICIA ALVAREZ	11211 NEWBROOK DR	HOUSTON	TX	77072-4238
293	MARTINEZ LEONIDAS & MABEL	8607 AMBLEWOOD DR	HOUSTON	TX	77099-1601
294	ROSAS HILARIO V	11207 NEWBROOK DR	HOUSTON	TX	77072-4238
295	BELLO JUAN A	8610 LEAMONT DR	HOUSTON	TX	77099-1661
296	HO DONG PHANG	3119 AMERSON DR	PEARLAND	TX	77584-9493
297	PHAM HAI NAM	11331 NEWBROOK DR	HOUSTON	TX	77072-4240
298	DIAS MARIA I	11311 NEWBROOK DR	HOUSTON	TX	77072-4240
299	NGUYEN MAI T	11303 NEWBROOK DR	HOUSTON	TX	77072-4240
300	LE LOAN THI	11227 NEWBROOK DR	HOUSTON	TX	77072-4238
301	VU DONG HUU & XUANLAN THI	11810 ZARROLL DR	HOUSTON	TX	77099-1563
302	VENTURA LORENZO A	8918 AMBLEWOOD DR	HOUSTON	TX	77099-1608
303	HIDALGO JUAN C & NORA E	8611 MAYRIDGE CIR	HOUSTON	TX	77099-1666
304	SPRINGFIELD KIMBERLY YVETTE	10110 TREETOP LN	LANHAM	MD	20706-2138
305	TTN LEASING LLC	7001 CORPORATE DR 309	HOUSTON	TX	NS-----
306	GAVARRETE SANTIAGO O	13955 MAXIMOS DRIVE	HOUSTON	TX	77083-8045
307	COUNTY OF HARRIS	PO BOX 1525	HOUSTON	TX	77251-1525

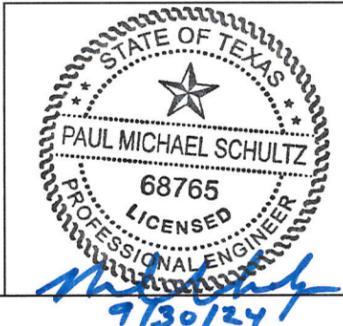


- LEGEND**
- APPLICATION PROPERTY AND FACILITY BOUNDARY
  - - - APPROXIMATE LANDFILL WASTE BOUNDARY
  - x-x- 6-FOOT CHAIN LINK METAL FENCE
  - 6-FOOT WOODEN FENCE
  - DOTY SAND PIT VENTURE LANDFILL PERMIT BOUNDARY (MSW PERMIT No. 1247)
  - OLSHAN PERMIT BOUNDARY (MSW PERMIT No. 1259, REVOKED)
  - | | EXISTING AND PROPOSED GATES
  - - - HCFCD DRAINAGE DITCH
  - ▨ HCFCD UNDERGROUND BOX CULVERT
  - X PROPOSED OUTFALL 001 LOCATION
  - 1 → PHOTOGRAPH LOCATION AND DIRECTION



**NOTES:**

- "HCFCD" REPRESENTS HARRIS COUNTY FLOOD CONTROL DISTRICT.
- "MSW" REPRESENTS MUNICIPAL SOLID WASTE.
- "R.O.W." REPRESENTS RIGHT OF WAY.
- THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.
- THIS DRAWING HAS BEEN PREPARED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER OR GEOSCIENTIST. DO NOT ALTER THIS DOCUMENT IN ANY WAY WITHOUT THE WRITTEN CONSENT OF SKA CONSULTING, L.P.
- APPROXIMATE LANDFILL WASTE BOUNDARY BASED ON DOCUMENTATION BY ENSR AND CEC BORINGS.
- DETENTION BASINS AND DRAINAGE DITCH WILL HAVE INTERNAL GATES (NOT SHOWN).



**SKA CONSULTING, L.P.**  
 1888 STEBBINS DRIVE, SUITE 100  
 HOUSTON, TX 77043

Texas Registered Engineering Firm F-005009  
 Texas Registered Geoscience Firm 50011

**ORIGINAL PHOTOGRAPH LOCATION MAP**

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION  
 DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
 OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
 12000 BISSONNET STREET  
 HOUSTON, HARRIS COUNTY, TEXAS 77099

DATE: SEPTEMBER 2024	JOB NO: 5019-0003	SCALE: AS SHOWN
1 FIRST REVISION	DRAWN BY: MLH	
2 SECOND REVISION	CHECKED BY: CLS	
3 THIRD REVISION	APPROVED BY: PMS	

ATTACH  
**8A**



Photo No. 1: View to the southwest of the location of the proposed Outfall 001 discharge point.



Photo No. 2: View to the west of the area upstream of the proposed Outfall 001 discharge point.



**INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION  
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12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS 77099**

**Project No. 5019-0003  
September 2024**



Photo No. 3: View to the southeast of the area downstream of the proposed Outfall 001 discharge point.



Photo No. 4: View to the northeast of the proposed location of Basin 3 (sedimentation pond).



**INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION  
DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS 77099**

**Project No. 5019-0003  
September 2024**

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)**

**FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL  
TPDES WASTEWATER PERMIT APPLICATIONS**

**TCEQ USE ONLY:**

Application type:  Renewal  Major Amendment  Minor Amendment  New

County: \_\_\_\_\_ Segment Number: \_\_\_\_\_

Admin Complete Date: \_\_\_\_\_

Agency Receiving SPIF:

Texas Historical Commission

U.S. Fish and Wildlife

Texas Parks and Wildlife Department

U.S. Army Corps of Engineers

**This form applies to TPDES permit applications only.** (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

**Do not refer to your response to any item in the permit application form.** Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at [WQ-ARPTeam@tceq.texas.gov](mailto:WQ-ARPTeam@tceq.texas.gov) or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: Bissonnet 136, LLC

Permit No. WQ00 N/A

EPA ID No. TX N/A

Address of the project (or a location description that includes street/highway, city/vicinity, and county):

12000 Bissonnet Street  
Houston, Harris County, Texas 77099

Description:

700 FEET N BISSONNET STREET 200 FEET E COOK ROAD 500 FEET S ALPHA LANE 700 FEET W KIRWOOD

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Mike Schultz

Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Executive Vice President & Partner

Mailing Address: 1888 Stebbins Drive

City, State, Zip Code: Houston, Texas 77043

Phone No.: 713-266-6056 Ext.: 832-255-5560 Fax No.: 713-266-0996

E-mail Address: mikeschultz@skaconsulting.com

2. List the county in which the facility is located: Harris County
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

N/A

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

From Outfall 001 to the Harris County Flood Control District (HCFCD) ditch D120-00-00 (Tributary 20.90 to Brays Bayou) thence to Brays Bayou Above Tidal (Classified Stream Segment 1007B).

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- Proposed access roads, utility lines, construction easements
- Visual effects that could damage or detract from a historic property's integrity
- Vibration effects during construction or as a result of project design
- Additional phases of development that are planned for the future
- Sealing caves, fractures, sinkholes, other karst features

- ☐ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

Three drainage basins totaling approximately 11.5 acres of land, and three drainage channels are the proposed construction impacts for the first phase of the development activities at the facility.

2. Describe existing disturbances, vegetation, and land use:

The Subject Property includes the closed 118.778-acre Doty Sand Pit Venture (DSPV) Landfill [Municipal Solid Waste (MSW) Permit No. 1247] and the closed 18.11-acre Olshan Demolishing Landfill (MSW Permit No. 1259, revoked). The DSPV Landfill is currently in post-closure care while the Olshan Demolishing Landfill completed post closure care and MSW Permit No. 1259 was revoked in 2002. The existing surface cover is fully vegetated and semi-annually maintained.

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

3. List construction dates of all buildings and structures on the property:

February 1, 2025

4. Provide a brief history of the property, and name of the architect/builder, if known.

The DSPV Landfill was vacant land since at least 1939 until development of the property began in the 1960's as a sand mining operation. As the sand was mined out, the property was converted to a Type IV construction and demolition debris landfill in the 1970's. The DSPV Landfill operated from the 1970s to 1999 and has been in post closure care since closed. The landfill is currently capped with an original compacted clay layer to isolate the waste and prevent infiltration of precipitation. The Sugar Hills Golf Course operated on the DSPV Landfill from 2000 to 2005. Over a million cubic yards of fill soil was brought on site to shape the golf course. The clay cap is covered by up to 15 feet of soil (golf course soil) that was placed to shape the golf course in 2000. The DSPV Landfill property has been vacant land since the closing of the Sugar Hills Golf Course in 2005. The DSPV Landfill property still exhibits evidence of being developed as a golf course.

The Olshan Demolishing Landfill is a closed Type IV landfill (formerly MSW Permit No. 1259 [revoked]) that received waste from September 1976 until July 1987. In 2002, the Olshan Landfill ended post closure care, and the permit was revoked. The Sugar Hills Golf Course operated from approximately 2000 to 2005 on top of the landfill. Since the Sugar Hills Golf Course closed, the closed landfill has remained undeveloped. The DSPV Landfill (MSW Permit No. 1247) is located adjacently south and west of the Olshan landfill.



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional information** or clarification on the requested information, please refer to the [Instructions for Completing the Industrial Wastewater Permit Application](#)<sup>1</sup> available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

**NOTE:** This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

### Item 1. Facility/Site Information (Instructions, Page 39)

- a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

The facility includes the closed 118.778-acre Doty Sand Pit Venture (DSPV) Landfill [Municipal Solid Waste (MSW) Permit No. 1247] and the closed 18.11-acre Olshan Demolishing Landfill (MSW Permit No. 1259, revoked). The DSPV Landfill is currently in post-closure care while the Olshan Demolishing Landfill completed post closure care and MSW Permit No. 1259 was revoked in 2002. Both the DSPV Landfill and the Olshan Demolishing Landfill were Type IV MSW landfills that receive construction and demolition waste.

- b. Describe all wastewater-generating processes at the facility.

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<sup>1</sup>  
[https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES\\_industrial\\_wastewater\\_steps.html](https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html)

This permit application pertains to the wastewater generated during the excavation of the utility trenches, drainage ditches, and detention basins when water comes in contact with waste as a part of the development activities at the facility.

- c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

**Materials List**

Raw Materials	Intermediate Products	Final Products
Construction and demolition debris	N/A	N/A

**Attachment:** N/A

- d. Attach a facility map (drawn to scale) with the following information:
- Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
  - The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.

**Attachment:** 10

- e. Is this a new permit application for an existing facility?

Yes       No

If **yes**, provide background discussion: The facility includes the closed DSPV Landfill and the

closed Olshan Demolishing Landfill. This application pertains to the wastewater generated when water comes in contact with waste during the proposed development activities at the facility.

- f. Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.

Yes     No

List source(s) used to determine 100-year frequency flood plain: Flood Insurance Rate Map No. 48201Co840L

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: N/A

**Attachment:** N/A

- g. For **new** or **major amendment** permit applications, will any construction operations result in a discharge of fill material into a water in the state?

Yes     No     N/A (renewal only)

- h. If **yes** to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?

Yes     No

If **yes**, provide the permit number: N/A

If **no**, provide an approximate date of application submittal to the USACE: N/A

## Item 2. Treatment System (Instructions, Page 40)

- a. List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.

Settlement Basin (Impoundments): Wastewater will be detained in a settlement basin prior to discharge to treat suspended solids. Flocculants and aeration may be used for supplemental treatment, if needed.

- b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

**Attachment:** 11 (See Flow Diagram)

### Item 3. Impoundments (Instructions, Page 40)

Does the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)

Yes  No

If **no**, proceed to Item 4. If **yes**, complete **Item 3.a** for **existing** impoundments and **Items 3.a - 3.e** for **new or proposed** impoundments. **NOTE:** See instructions, Pages 40-42, for additional information on the attachments required by Items 3.a - 3.e.

- a. Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

**Use Designation:** Indicate the use designation for each impoundment as Treatment (T), Disposal (D), Containment (C), or Evaporation (E).

**Associated Outfall Number:** Provide an outfall number if a discharge occurs or will occur.

**Liner Type:** Indicate the liner type as Compacted clay liner (C), In-situ clay liner (I), Synthetic/plastic/rubber liner (S), or Alternate liner (A). **NOTE:** See instructions for further detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

**Leak Detection System:** If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

**Groundwater Monitoring Wells and Data:** If groundwater monitoring wells are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no. Attach any existing groundwater monitoring data.

**Dimensions:** Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

**Compliance with 40 CFR Part 257, Subpart D:** If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter **Y** for yes. Otherwise, enter **N** for no.

**Date of Construction:** Enter the date construction of the impoundment commenced (mm/dd/yy).

#### Impoundment Information

Parameter	Pond # 1	Pond # 2	Pond # 3	Pond #
Use Designation: (T) (D) (C) or (E)	T	T	T	
Associated Outfall Number	001	001	001	
Liner Type (C) (I) (S) or (A)	C and S	C and S	C and S	
Alt. Liner Attachment Reference	N/A	N/A	N/A	
Leak Detection System, Y/N	N	N	N	
Groundwater Monitoring Wells, Y/N	N	N	N	

Parameter	Pond # 1	Pond # 2	Pond # 3	Pond #
Groundwater Monitoring Data Attachment	N/A	N/A	N/A	
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	N	N	N	
Length (ft)	1,190	185	520	
Width (ft)	319	355	386	
Max Depth From Water Surface (ft), Not Including Freeboard	7.1	8	12.5	
Freeboard (ft)	1	1	1	
Surface Area (acres)	11.74	1.5	9.39	
Storage Capacity (gallons)	10,609,707	1,111,152	18,814,633	
40 CFR Part 257, Subpart D, Y/N	N	N	N	
Date of Construction	February 1, 2025 (tentative)	February 1, 2025 (tentative)	February 1, 2025 (tentative)	

**Attachment: 13**

The following information (**Items 3.b – 3.e**) is required only for **new or proposed** impoundments.

b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed**.

1. Liner data

Yes     No     Not yet designed

2. Leak detection system or groundwater monitoring data

Yes     No     Not yet designed

3. Groundwater impacts

Yes     No     Not yet designed

**NOTE:** Item b.3 is required if the bottom of the pond is not above the seasonal high-water table in the shallowest water-bearing zone.

**Attachments: 16, 17, and 18**

**For TLAP applications: Items 3.c – 3.e are not required, continue to Item 4.**

c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

**Attachment: 5**

- d. Attach copies of State Water Well Reports (e.g., driller’s logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

**Attachment:** 14

- e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

**Attachment:** N/A

## Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/or numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

**For TLAP applications:** Indicate the disposal method and each individual irrigation area **I**, evaporation pond **E**, or subsurface drainage system **S** by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

### Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	29.684540	-95.587942

### Outfall Location Description

Outfall No.	Location Description
001	The outfall of Basin 3 (impoundment pond # 3) prior to entering the Harris County Flood Control Drainage Ditch D120-00-00.

### Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point
001	As Outfall 001 is as proposed outfall, the sampling point was a piezometer (SB-57) located near the proposed location of Outfall 001. SB-57 is located at 29.683464° latitude and -95.588297° longitude. Leachate collected from SB-57 represents the worst-case potential effluent.

**Outfall Flow Information - Permitted and Proposed**

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	N/A	N/A	0.5	9.1	February 1, 2025

**Outfall Discharge - Method and Measurement**

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	N	Y	Junction box with restrictor and weir

**Outfall Discharge - Flow Characteristics**

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
001	Y	N	N	3 Typ.	12 Typ.	12 Typ.

**Outfall Wastestream Contributions**

**Outfall No. 001**

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Leachate/stormwater and groundwater that encounters waste	0.5	100%

Outfall No. N/A

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Outfall No. N/A

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Attachment: N/A

**Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)**

- a. Indicate if the facility currently or proposes to:
- Yes  No Use cooling towers that discharge blowdown or other wastestreams
  - Yes  No Use boilers that discharge blowdown or other wastestreams
  - Yes  No Discharge once-through cooling water

**NOTE:** If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 is required.

- b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.
- Manufacturers Product Identification Number
  - Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)

- Chemical composition including CASRN for each ingredient
- Classify product as non-persistent, persistent, or bioaccumulative
- Product or active ingredient half-life
- Frequency of product use (e.g., 2 hours/day once every two weeks)
- Product toxicity data specific to fish and aquatic invertebrate organisms
- Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

**Attachment:** N/A

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

**Cooling Towers and Boilers**

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers			
Boilers			

**Item 6. Stormwater Management (Instructions, Page 44)**

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at 40 CFR § 122.26(b)(14), commingled with any other wastestream?

- Yes  No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: During the development activities at the facility, stormwater will be exposed to the waste within the landfill and will become wastewater.

**Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)**

**Domestic Sewage** - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

- a. Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.
- Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.
  - Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.
  - Domestic and industrial treatment sludge ARE commingled prior to use or disposal.
  - Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.

- Facility is a POTW. Complete Worksheet 5.0.
- Domestic sewage is not generated on-site.
- Other (e.g., portable toilets), specify and Complete Item 7.b: N/A

b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

**Domestic Sewage Plant/Hauler Name**

Plant/Hauler Name	Permit/Registration No.
N/a	

**Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)**

- a. Is the permittee currently required to meet any implementation schedule for compliance or enforcement?
  - Yes  No
- b. Has the permittee completed or planned for any improvements or construction projects?
  - Yes  No
- c. If **yes** to either 8.a or 8.b, provide a brief summary of the requirements and a status update: The facility is proposed for mixed use development including retail, light industrial, multi-family, and single-family residential. Development will begin in 2025.

**Item 9. Toxicity Testing (Instructions, Page 45)**

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

- Yes  No

If **yes**, identify the tests and describe their purposes: N/A

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** N/A

**Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)**

- a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?
  - Yes  No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

- b. Attach the following information to the application:

- List of wastes received (including volumes, characterization, and capability with on-site wastes).
- Identify the sources of wastes received (including the legal name and addresses of the generators).
- Description of the relationship of waste source(s) with the facility's activities.

**Attachment:** N/A

c. Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?

- Yes       No

If **yes**, provide the name, address, and TCEQ, NPDES, or TPDES permit number of the contributing facility and a copy of any agreements or contracts relating to this activity.

**Attachment:** N/A

d. Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?

- Yes       No

If **yes**, **Worksheet 6.0** of this application is required.

**Item 11. Radioactive Materials (Instructions, Page 46)**

a. Are/will radioactive materials be mined, used, stored, or processed at this facility?

- Yes       No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.

**Radioactive Materials Mined, Used, Stored, or Processed**

Radioactive Material Name	Concentration (pCi/L)
N/A	

b. Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?

- Yes       No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.

**Radioactive Materials Present in the Discharge**

Radioactive Material Name	Concentration (pCi/L)
N/A	

**Item 12. Cooling Water (Instructions, Page 46)**

a. Does the facility use or propose to use water for cooling purposes?

- Yes       No

If **no**, stop here. If **yes**, complete Items 12.b thru 12.f.

b. Cooling water is/will be obtained from a groundwater source (e.g., on-site well).

- Yes       No

If **yes**, stop here. If **no**, continue.

c. Cooling Water Supplier

1. Provide the name of the owner(s) and operator(s) for the CWIS that supplies or will supply water for cooling purposes to the facility.

**Cooling Water Intake Structure(s) Owner(s) and Operator(s)**

<b>CWIS ID</b>				
<b>Owner</b>				
<b>Operator</b>				

2. Cooling water is/will be obtained from a Public Water Supplier (PWS)

- Yes       No

If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: PWS No. N/A

3. Cooling water is/will be obtained from a reclaimed water source?

- Yes       No

If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here: N/A

4. Cooling water is/will be obtained from an Independent Supplier

- Yes       No

If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: N/A

d. 316(b) General Criteria

1. The CWIS(s) used to provide water for cooling purposes to the facility has or will have a

cumulative design intake flow of 2 MGD or greater.

Yes  No

2. At least 25% of the total water withdrawn by the CWIS is/will be used at the facility exclusively for cooling purposes on an annual average basis.

Yes  No

3. The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in *40 CFR § 122.2*.

Yes  No

If **no**, provide an explanation of how the waterbody does not meet the definition of Waters of the United States in *40 CFR § 122.2*: N/A

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA. Proceed to **Item 12.f**.

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to **Item 12.e**.

e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) **and uses/proposes to use cooling towers**.

Yes  No

If **yes**, stop here. If **no**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ.

f. Oil and Gas Exploration and Production

1. The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.

Yes  No

If **yes**, continue. If **no**, skip to Item 12.g.

2. The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).

Yes  No

If **yes**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If **no**, skip to Item 12.g.3.

g. Compliance Phase and Track Selection

1. Phase I - New facility subject to 40 CFR Part 125, Subpart I

Yes  No

If **yes**, check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

Track I - AIF greater than 2 MGD, but less than 10 MGD

- Attach information required by *40 CFR §§ 125.86(b)(2)-(4)*.

- Track I - AIF greater than 10 MGD
  - Attach information required by *40 CFR § 125.86(b)*.
- Track II
  - Attach information required by *40 CFR § 125.86(c)*.

**Attachment:** N/A

2. Phase II - Existing facility subject to 40 CFR Part 125, Subpart J

- Yes       No

If **yes**, complete Worksheets 11.0 through 11.3, as applicable.

3. Phase III - New facility subject to 40 CFR Part 125, Subpart N

- Yes       No

If **yes**, check the box next to the compliance track selection and provide the requested information.

Track I - Fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

Track I - Not a fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).

Track II - Fixed facility

- Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

**Attachment:** N/A

## Item 13. Permit Change Requests (Instructions, Page 48)

This item is only applicable to existing permitted facilities.

a. Is the facility requesting a **major amendment** of an existing permit?

- Yes       No

If **yes**, list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

N/A

b. Is the facility requesting any **minor amendments** to the permit?

Yes  No

If **yes**, list and describe each change individually.

N/A

c. Is the facility requesting any **minor modifications** to the permit?

Yes  No

If **yes**, list and describe each change individually.

N/A

## Item 14. Laboratory Accreditation (Instructions, Page 49)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or

- performing work for another company with a unit located in the same site; or
- performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review *30 TAC Chapter 25* for specific requirements.

The following certification statement shall be signed and submitted with every application. See the *Signature Page* section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*.

Printed Name: Mike Schultz, P.E.

Title: Executive Vice President & Partner

Signature: -----

Date: 9/30/24-----

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

This worksheet **is required** for all applications for TPDES permits for discharges of wastewaters subject to EPA categorical effluent limitation guidelines (ELGs).

## Item 1. Categorical Industries (Instructions, Page 53)

Is this facility subject to any 40 CFR categorical ELGs outlined on page 53 of the instructions?

Yes  No

If **no**, this worksheet is not required. If **yes**, provide the appropriate information below.

### 40 CFR Effluent Guideline

Industry	40 CFR Part
Landfills	445

## Item 2. Production/Process Data (Instructions, Page 54)

**NOTE:** For all TPDES permit applications requesting individual permit coverage for discharges of oil and gas exploration and production wastewater (discharges into or adjacent to water in the state, falling under the Oil and Gas Extraction Effluent Guidelines – 40 CFR Part 435), see Worksheet 12.0, Item 2 instead.

### a. Production Data

Provide appropriate data for effluent guidelines with production-based effluent limitations.

#### Production Data

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units
N/A, closed landfill. The effluent is not based off the production rate.			

**b. Organic Chemicals, Plastics, and Synthetic Fibers Manufacturing Data (40 CFR Part 414)**

Provide each applicable subpart and the percent of total production. Provide data for metal-bearing and cyanide-bearing wastestreams, as required by *40 CFR Part 414, Appendices A and B*.

**Percentage of Total Production**

Subcategory	Percent of Total Production	Appendix A and B - Metals	Appendix A - Cyanide
N/A; construction and demolition debris landfill.			

**c. Refineries (40 CFR Part 419)**

Provide the applicable subcategory and a brief justification.

N/A

**Item 3. Process/Non-Process Wastewater Flows (Instructions, Page 54)**

Provide a breakdown of wastewater flow(s) generated by the facility, including both process and non-process wastewater flow(s). Specify which wastewater flows are to be authorized for discharge under this permit and the disposal practices for wastewater flows, excluding domestic, which are not to be authorized for discharge under this permit.

The wastewater discharges from the facility are expected to contain stormwater that does come in contact with the landfill waste during the development activities, and the landfill leachate encountered during the development activities.

**Item 4. New Source Determination (Instructions, Page 54)**

Provide a list of all wastewater-generating processes subject to EPA categorical ELGs, identify the appropriate guideline Part and Subpart, and provide the date the process/construction commenced.

**Wastewater Generating Processes Subject to Effluent Guidelines**

Process	EPA Guideline Part	EPA Guideline Subpart	Date Process/Construction Commenced
N/A			

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: POLLUTANT ANALYSIS

Worksheet 2.0 is **required** for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

## Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 06/21/2024-07/12/2024
- b.  Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment: 12**

## Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment: N/A**

### TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: **001**

Samples are (check one):  Composite  Grab

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	3.08	15.1	<2.00	2.42
CBOD (5-day)	<2.00	<2.00	<2.00	<2.00
Chemical oxygen demand	92.0	90	85.0	80.0
Total organic carbon	40.8	42.9	34.7	23.8
Dissolved oxygen	5.17	<1.00	<1.00	<1.00
Ammonia nitrogen	4.0	4.1	4.6	3.8
Total suspended solids	55.3	70.4	53.0	52.0
Nitrate nitrogen	0.0412	<0.0300	<0.0300	<0.0300
Total organic nitrogen	3.3	6.9	<0.50	<0.50
Total phosphorus	<0.0200	0.0340 J	<0.0200	<0.0200
Oil and grease	<0.610	2.67	1.82 J	0.952 J
Total residual chlorine	<0.10	<0.10	<0.10	<0.10

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total dissolved solids	990	1,250	1,180	1,120
Sulfate	0.230 J	0.0340 J	<0.200	11.8
Chloride	49.0	45.0	43.3	41.5
Fluoride	0.354	0.386	0.373	0.406
Total alkalinity (mg/L as CaCO3)	1,160	1,230	1,200	1,090
Temperature (°F)	69.08	71.42	67.28	70.7
pH (standard units)	6.82	6.80	6.73	7.03

Table 2 for Outfall No.: **001**

Samples are (check one):  Composite  Grab

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	31.9	105	16.6	18.9	2.5
Antimony, total	0.233 J	<0.0530	<0.0530	<0.0530	5
Arsenic, total	0.597 J	0.492 J	0.329 J	<0.250	0.5
Barium, total	1,750	1,560	1,660	1,590	3
Beryllium, total	<0.0910	<0.0910	<0.0910	<0.0910	0.5
Cadmium, total	<0.0770	<0.0770	<0.0770	<0.0770	1
Chromium, total	1.43 J	1.55 J	0.978 J	1.39 J	3
Chromium, hexavalent	0.0600	<0.0300	0.0120	0.00700 J	3
Chromium, trivalent	<0.0100	<0.0100	<0.0100	<0.0100	N/A
Copper, total	0.986 J	0.609 J	0.354 J	2.42	2
Cyanide, available	<2.00	<2.00	<2.00	<2.00	2/10
Lead, total	2.44	7.10	0.389 J	0.792 J	0.5
Mercury, total	0.00115	0.00484	0.00059	0.00228	0.005/0.0005
Nickel, total	0.857 J	0.931 J	0.456 J	0.565	2
Selenium, total	<0.860	<0.860	<0.860	<0.860	5
Silver, total	<0.0440	<0.0400	<0.0400	<0.0400	0.5
Thallium, total	<0.250	<0.250	<0.250	<0.250	0.5
Zinc, total	6.05	17.3	5.33	9.31	5.0

**TABLE 3 (Instructions, Page 58)**

**Completion** of Table 3 is required for all **external outfalls** which discharge process wastewater.

**Partial completion** of Table 3 is required for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

**Table 3 for Outfall No.: 001**

Samples are (check one):  Composite  Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile	<4.00	<4.00	<4.00	<4.00	50
Anthracene	<0.300	<0.300	<0.300	<0.300	10
Benzene	<0.600	<0.600	<0.600	<0.600	10
Benzidine	<5.00	<5.00	<5.00	<5.00	50
Benzo(a)anthracene	<0.300	<0.300	<0.300	<0.300	5
Benzo(a)pyrene	<0.400	<0.400	<0.400	<0.400	5
Bis(2-chloroethyl)ether	<0.700	<0.700	<0.700	<0.700	10
Bis(2-ethylhexyl)phthalate	<0.800	<0.800	<0.800	<0.800	10
Bromodichloromethane [Dichlorobromomethane]	<0.600	<0.600	<0.600	<0.600	10
Bromoform	<0.500	<0.500	<0.500	<0.500	10
Carbon tetrachloride	<0.600	<0.600	<0.600	<0.600	2
Chlorobenzene	<0.400	<0.400	<0.400	<0.400	10
Chlorodibromomethane [Dibromochloromethane]	<0.500	<0.500	<0.500	<0.500	10
Chloroform	<0.600	<0.600	<0.600	<0.600	10
Chrysene	<0.800	<0.800	<0.800	<0.800	5
m-Cresol [3-Methylphenol]	<0.400	<0.400	<0.400	<0.400	10
o-Cresol [2-Methylphenol]	<0.400	<0.400	<0.400	<0.400	10
p-Cresol [4-Methylphenol]	<0.400	<0.400	<0.400	<0.400	10
1,2-Dibromoethane	<0.400	<0.400	<0.400	<0.400	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.500	<0.500	<0.500	<0.500	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.600	<0.600	<0.600	<0.600	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.600	<0.600	<0.600	<0.600	10
3,3'-Dichlorobenzidine	<0.500	<0.500	<0.500	<0.500	5
1,2-Dichloroethane	<0.500	<0.500	<0.500	<0.500	10

<b>Pollutant</b>	<b>Sample 1 (µg/L)*</b>	<b>Sample 2 (µg/L)*</b>	<b>Sample 3 (µg/L)*</b>	<b>Sample 4 (µg/L)*</b>	<b>MAL (µg/L)*</b>
1,1-Dichloroethene [1,1-Dichloroethylene]	<0.500	<0.500	<0.500	<0.500	10
Dichloromethane [Methylene chloride]	<1.00	<1.00	<1.00	<1.00	20
1,2-Dichloropropane	<0.700	<0.700	<0.700	<0.700	10
1,3-Dichloropropene [1,3-Dichloropropylene]	<0.600	<0.600	<0.600	<0.600	10
2,4-Dimethylphenol	<0.400	<0.400	<0.400	<0.400	10
Di-n-Butyl phthalate	<0.800	<0.800	<0.800	<0.800	10
Ethylbenzene	<0.500	<0.500	<0.500	<0.500	10
Fluoride	0.354	0.386	0.386	0.386	500
Hexachlorobenzene	<0.300	<0.300	<0.300	<0.300	5
Hexachlorobutadiene	<0.500	<0.500	<0.500	<0.500	10
Hexachlorocyclopentadiene	<0.400	<0.400	<0.400	<0.400	10
Hexachloroethane	<0.800	<0.800	<0.800	<0.800	20
Methyl ethyl ketone	<1.00	<1.00	<1.00	<1.00	50
Nitrobenzene	<0.400	<0.400	<0.400	<0.400	10
N-Nitrosodiethylamine	<0.600	<0.600	<0.600	<0.600	20
N-Nitroso-di-n-butylamine	<0.500	<0.500	<0.500	<0.500	20
Nonylphenol	<5.00 n	<5.00 n	<5.00 n	<5.00 n	333
Pentachlorobenzene	<0.500	<0.500	<0.500	<0.500	20
Pentachlorophenol	<0.800	<0.800	<0.800	<0.800	5
Phenanthrene	<0.400	<0.400	<0.400	<0.400	10
Polychlorinated biphenyls (PCBs) (**)	<0.200	<0.200	<0.200	<0.200	0.2
Pyridine	<0.300	<0.300	<0.300	<0.300	20
1,2,4,5-Tetrachlorobenzene	<0.600	<0.600	<0.600	<0.600	20
1,1,2,2-Tetrachloroethane	<0.500	<0.500	<0.500	<0.500	10
Tetrachloroethene [Tetrachloroethylene]	<0.600	<0.600	<0.600	<0.600	10
Toluene	<0.500	<0.500	<0.500	<0.500	10
1,1,1-Trichloroethane	<0.500	<0.500	<0.500	<0.500	10
1,1,2-Trichloroethane	<0.500	<0.500	<0.500	<0.500	10
Trichloroethene [Trichloroethylene]	<0.500	<0.500	<0.500	<0.500	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
2,4,5-Trichlorophenol	<0.500	<0.500	<0.500	<0.500	50
TTHM (Total trihalomethanes)	<0.600	<0.600	<0.600	<0.600	10
Vinyl chloride	<0.400	<0.400	<0.400	<0.400	10

(\*) Indicate units if different from µg/L.

(\*\*) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a “<”.

**TABLE 4 (Instructions, Pages 58-59)**

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

**a. Tributyltin**

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

- Yes       No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- Manufacturers and formulators of tributyltin or related compounds.
- Painting of ships, boats and marine structures.
- Ship and boat building and repairing.
- Ship and boat cleaning, salvage, wrecking and scaling.
- Operation and maintenance of marine cargo handling facilities and marinas.
- Facilities engaged in wood preserving.
- Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

**b. Enterococci (discharge to saltwater)**

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

- Yes       No

Domestic wastewater is/will be discharged.

- Yes       No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

**c. E. coli (discharge to freshwater)**

This facility discharges/proposes to discharge directly into freshwater receiving waters and *E. coli* bacteria are expected to be present in the discharge based on facility processes.

Yes       No

Domestic wastewater is/will be discharged.

Yes       No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.: NA

Samples are (check one):  Composite     Grab

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

**TABLE 5 (Instructions, Page 59)**

**Completion of Table 5 is required for all external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

N/A

Table 5 for Outfall No.: N/A

Samples are (check one):  Composite     Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090

<b>Pollutant</b>	<b>Sample 1 (µg/L)*</b>	<b>Sample 2 (µg/L)*</b>	<b>Sample 3 (µg/L)*</b>	<b>Sample 4 (µg/L)*</b>	<b>MAL (µg/L)*</b>
Endosulfan I ( <i>alpha</i> )					0.01
Endosulfan II ( <i>beta</i> )					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane ( <i>alpha</i> )					0.05
Hexachlorocyclohexane ( <i>beta</i> )					0.05
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

\* Indicate units if different from µg/L.

**TABLE 6 (Instructions, Page 59)**

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.: 001

Samples are (check one):  Composite  Grab

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	<input checked="" type="checkbox"/>	<input type="checkbox"/>			0.000654		400
Color (PCU)	<input type="checkbox"/>	<input checked="" type="checkbox"/>					—
Nitrate-Nitrite (as N)	<input type="checkbox"/>	<input checked="" type="checkbox"/>					—
Sulfide (as S)	<input type="checkbox"/>	<input checked="" type="checkbox"/>					—
Sulfite (as SO3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>					—
Surfactants	<input type="checkbox"/>	<input checked="" type="checkbox"/>					—
Boron, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>					20
Cobalt, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>					0.3
Iron, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>			21.0		7
Magnesium, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>			53.1		20
Manganese, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>			0.330		0.5
Molybdenum, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<0.000490		1
Tin, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>					5
Titanium, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>					30

**TABLE 7 (Instructions, Page 60)**

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

N/A

**Table 7 for Applicable Industrial Categories**

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/Neutrals Table 10	Pesticides Table 11
<input type="checkbox"/> Adhesives and Sealants		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Aluminum Forming	467	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Auto and Other Laundries		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Battery Manufacturing	461	<input type="checkbox"/> Yes	No	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Coal Mining	434	No	No	No	No
<input type="checkbox"/> Coil Coating	465	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Copper Forming	468	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Electric and Electronic Components	469	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Electroplating	413	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Explosives Manufacturing	457	No	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Foundries		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Gum and Wood Chemicals - Subparts A,B,C,E	454	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No	No
<input type="checkbox"/> Gum and Wood Chemicals - Subparts D,F	454	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Inorganic Chemicals Manufacturing	415	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Iron and Steel Manufacturing	420	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Leather Tanning and Finishing	425	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Mechanical Products Manufacturing		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Nonferrous Metals Manufacturing	421,471	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Ore Mining - Subpart B	440	No	<input type="checkbox"/> Yes	No	No
<input type="checkbox"/> Organic Chemicals Manufacturing	414	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Paint and Ink Formulation	446,447	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Pesticides	455	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Petroleum Refining	419	<input type="checkbox"/> Yes	No	No	No
<input type="checkbox"/> Pharmaceutical Preparations	439	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Photographic Equipment and Supplies	459	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Plastic and Synthetic Materials Manufacturing	414	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Plastic Processing	463	<input type="checkbox"/> Yes	No	No	No
<input type="checkbox"/> Porcelain Enameling	466	No	No	No	No
<input type="checkbox"/> Printing and Publishing		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> Pulp and Paperboard Mills - Subpart C	430	<input type="checkbox"/> *	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> Yes
<input type="checkbox"/> Pulp and Paperboard Mills - Subparts F, K	430	<input type="checkbox"/> *	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> *
<input type="checkbox"/> Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> *
<input type="checkbox"/> Pulp and Paperboard Mills - Subparts I, J, L	430	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> *	<input type="checkbox"/> Yes
<input type="checkbox"/> Pulp and Paperboard Mills - Subpart E	430	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> *
<input type="checkbox"/> Rubber Processing	428	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Soap and Detergent Manufacturing	417	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Steam Electric Power Plants	423	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No	No
<input type="checkbox"/> Textile Mills (Not Subpart C)	410	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	No
<input type="checkbox"/> Timber Products Processing	429	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes

\* Test if believed present.

**TABLES 8, 9, 10, and 11 (Instructions, Page 60)**

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

**Table 8 for Outfall No.: 001**

Samples are (check one):  Composite  Grab

<b>Pollutant</b>	<b>Sample 1 (µg/L)*</b>	<b>Sample 2 (µg/L)*</b>	<b>Sample 3 (µg/L)*</b>	<b>Sample 4 (µg/L)*</b>	<b>MAL (µg/L)</b>
Acrolein	<0.400				50
Acrylonitrile	<0.400				50
Benzene	<0.600				10
Bromoform	<0.500				10
Carbon tetrachloride	<0.600				2
Chlorobenzene	<0.400				10
Chlorodibromomethane	<0.500				10
Chloroethane	<0.500				50
2-Chloroethylvinyl ether	<1.30				10
Chloroform	<0.600				10
Dichlorobromomethane [Bromodichloromethane]	<0.500				10
1,1-Dichloroethane	<0.400				10
1,2-Dichloroethane	<0.400				10
1,1-Dichloroethylene [1,1-Dichloroethene]	<0.500				10
1,2-Dichloropropane	<0.700				10
1,3-Dichloropropylene [1,3-Dichloropropene]	<0.600				10
Ethylbenzene	<0.500				10
Methyl bromide [Bromomethane]	<0.500				50
Methyl chloride [Chloromethane]	<0.500				50
Methylene chloride [Dichloromethane]	<1.00				20
1,1,2,2-Tetrachloroethane	<0.500				10
Tetrachloroethylene [Tetrachloroethene]	<0.600				10
Toluene	<0.500				10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]	<0.400				10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,1,1-Trichloroethane	<0.500				10
1,1,2-Trichloroethane	<0.500				10
Trichloroethylene [Trichloroethene]	<0.500				10
Vinyl chloride	<0.400				10

\* Indicate units if different from µg/L.

Table 9 for Outfall No.: **001**

Samples are (check one):  Composite  Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol	<1.00				10
2,4-Dichlorophenol	<0.300				10
2,4-Dimethylphenol	<0.400				10
4,6-Dinitro-o-cresol	<0.900				50
2,4-Dinitrophenol	<0.500				50
2-Nitrophenol	<0.500				20
4-Nitrophenol	<0.600				50
p-Chloro-m-cresol	<0.400				10
Pentachlorophenol	<0.800				5
Phenol	<0.400				10
2,4,6-Trichlorophenol	<0.400				10

\* Indicate units if different from µg/L.

Table 10 for Outfall No.: **001**

Samples are (check one):  Composite  Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene	<0.300				10
Acenaphthylene	<0.300				10
Anthracene	<0.300				10
Benzidine	<5.00				50
Benzo(a)anthracene	<0.300				5
Benzo(a)pyrene	<0.400				5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]	<0.400				10
Benzo(ghi)perylene	<0.300				20
Benzo(k)fluoranthene	<0.700				5
Bis(2-chloroethoxy)methane	<0.400				10

<b>Pollutant</b>	<b>Sample 1 (µg/L)*</b>	<b>Sample 2 (µg/L)*</b>	<b>Sample 3 (µg/L)*</b>	<b>Sample 4 (µg/L)*</b>	<b>MAL (µg/L)</b>
Bis(2-chloroethyl)ether	<0.700				10
Bis(2-chloroisopropyl)ether	<0.800				10
Bis(2-ethylhexyl)phthalate	<0.600				10
4-Bromophenyl phenyl ether	<0.300				10
Butylbenzyl phthalate	<0.600				10
2-Chloronaphthalene	<0.600				10
4-Chlorophenyl phenyl ether	<0.500				10
Chrysene	<0.800				5
Dibenzo(a,h)anthracene	<0.600				5
1,2-Dichlorobenzene [o-Dichlorobenzene]	<0.600				10
1,3-Dichlorobenzene [m-Dichlorobenzene]	<0.500				10
1,4-Dichlorobenzene [p-Dichlorobenzene]	<0.600				10
3,3'-Dichlorobenzidine	<0.500				5
Diethyl phthalate	<0.700				10
Dimethyl phthalate	<0.500				10
Di-n-butyl phthalate	<0.800				10
2,4-Dinitrotoluene	<0.300				10
2,6-Dinitrotoluene	<0.300				10
Di-n-octyl phthalate	<2.00				10
1,2-Diphenylhydrazine (as Azobenzene)	<0.500				20
Fluoranthene	<0.400				10
Fluorene	<0.500				10
Hexachlorobenzene	<0.300				5
Hexachlorobutadiene	<0.500				10
Hexachlorocyclopentadiene	<0.400				10
Hexachloroethane	<0.800				20
Indeno(1,2,3-cd)pyrene	<0.600				5
Isophorone	<0.500				10
Naphthalene	<0.700				10
Nitrobenzene	<0.400				10
N-Nitrosodimethylamine	<0.600				50

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
N-Nitrosodi-n-propylamine	<0.500				20
N-Nitrosodiphenylamine	<0.400				20
Phenanthrene	<0.400				10
Pyrene	<0.300				10
1,2,4-Trichlorobenzene	<0.400				10

\* Indicate units if different from µg/L.

Table 11 for Outfall No.: **001**

Samples are (check one):  Composite  Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin	<0.00500				0.01
alpha-BHC [alpha-Hexachlorocyclohexane]	<0.0100				0.05
beta-BHC [beta-Hexachlorocyclohexane]	<0.0100				0.05
gamma-BHC [gamma-Hexachlorocyclohexane]	<0.00500				0.05
delta-BHC [delta-Hexachlorocyclohexane]	<0.0100				0.05
Chlordane	<0.100				0.2
4,4'-DDT	<0.0100				0.02
4,4'-DDE	<0.0100				0.1
4,4'-DDD	<0.0100				0.1
Dieldrin	<0.00500				0.02
Endosulfan I (alpha)	<0.0100				0.01
Endosulfan II (beta)	<0.0100				0.02
Endosulfan sulfate	<0.0100				0.1
Endrin	<0.0100				0.02
Endrin aldehyde	<0.0100				0.1
Heptachlor	<0.00500				0.01
Heptachlor epoxide	<0.00500				0.01
PCB 1242	<0.200				0.2
PCB 1254	<0.200				0.2
PCB 1221	<0.200				0.2
PCB 1232	<0.200				0.2
PCB 1248	<0.200				0.2

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
PCB 1260	<0.200				0.2
PCB 1016	<0.200				0.2
Toxaphene	<0.130				0.3

\* Indicate units if different from µg/L.

**Attachment: 12**

**TABLE 12 (DIOXINS/FURAN COMPOUNDS)**

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

- 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5
- 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1
- 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4
- 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3
- 2,4,5-trichlorophenol (TCP) CASRN 95-95-4
- hexachlorophene (HCP) CASRN 70-30-4
- None of the above

Description: N/A

Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

- Yes  No

Description: N/A

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: N/A Samples are (check one):  Composite  Grab

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					50
2,3,7,8-HxCDFs	0.1					50
2,3,4,7,8-HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

**TABLE 13 (HAZARDOUS SUBSTANCES)**

Complete Table 13 is required for all external outfalls as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

Yes  No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

Yes  No

If yes to either Items a or b, complete Table 13 as instructed.

Table 13 for Outfall No.: N/A Samples are (check one):  Composite  Grab

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet is **required** for all TPDES permit applications.

## Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a. There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.

Yes       No

If **no**, stop here and proceed to Item 2. If **yes**, provide the following information:

1. The legal name of the owner of the drinking water supply intake: N/A
2. The distance and direction from the outfall to the drinking water supply intake: N/A

b. Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.

Check this box to confirm the above requested information is provided.

## Item 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

If the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.

a. Width of the receiving water at the outfall: N/A feet

b. Are there oyster reefs in the vicinity of the discharge?

Yes       No

If **yes**, provide the distance and direction from the outfall(s) to the oyster reefs: N/A

c. Are there sea grasses within the vicinity of the point of discharge?

Yes       No

If **yes**, provide the distance and direction from the outfall(s) to the grasses: N/A

## Item 3. Classified Segment (Instructions, Page 80)

The discharge is/will be directly into (or within 300 feet of) a classified segment.

Yes       No

If **yes**, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

## Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

- a. Name of the immediate receiving waters: HCFC D120-00-00
- b. Check the appropriate description of the immediate receiving waters:
- Lake or Pond
    - Surface area (acres): N/A
    - Average depth of the entire water body (feet): N/A
    - Average depth of water body within a 500-foot radius of the discharge point (feet): N/A
  - Man-Made Channel or Ditch
  - Stream or Creek
  - Freshwater Swamp or Marsh
  - Tidal Stream, Bayou, or Marsh
  - Open Bay
  - Other, specify:

If **Man-Made Channel or Ditch** or **Stream or Creek** were selected above, provide responses to Items 4.c - 4.g below:

- c. For **existing discharges**, check the description below that best characterizes the area **upstream** of the discharge.

For **new discharges**, check the description below that best characterizes the area **downstream** of the discharge.

- Intermittent (dry for at least one week during most years)
- Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)
- Perennial (normally flowing)

Check the source(s) of the information used to characterize the area upstream (existing discharge) or downstream (new discharge):

- USGS flow records
- personal observation
- historical observation by adjacent landowner(s)
- other, specify: N/A

- d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Harris County Flood Control District (D120-00-00) to Brays Bayou Above Tidal (Segment ID 1007B)

e. The receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.).

Yes  No

If **yes**, describe how: N/A

f. General observations of the water body during normal dry weather conditions: Perennial (normally flowing)

Date and time of observation: 8/26/2024 at approximately 12:00 PM

g. The water body was influenced by stormwater runoff during observations.

Yes  No

If **yes**, describe how: N/A

## Item 5. General Characteristics of Water Body (Instructions, Page 81)

a. Is the receiving water upstream of the existing discharge or proposed discharge site influenced by any of the following (check all that apply):

- |   |   |
|---|---|
| <input type="checkbox"/> oil field activities | <input checked="" type="checkbox"/> urban runoff    |
| <input type="checkbox"/> agricultural runoff  | <input type="checkbox"/> septic tanks               |
| <input type="checkbox"/> upstream discharges  | <input type="checkbox"/> other, specify: <u>N/A</u> |

b. Uses of water body observed or evidence of such uses (check all that apply):

- |   |  |
|---|--|
| <input type="checkbox"/> livestock watering     | <input type="checkbox"/> industrial water supply                                   |
| <input type="checkbox"/> non-contact recreation | <input type="checkbox"/> irrigation withdrawal                                     |
| <input type="checkbox"/> domestic water supply  | <input type="checkbox"/> navigation  |
| <input type="checkbox"/> contact recreation     | <input type="checkbox"/> picnic/park activities                                    |
| <input type="checkbox"/> fishing                | <input checked="" type="checkbox"/> other, specify: <u>Drainage for stormwater</u> |

c. Description which best describes the aesthetics of the receiving water and the surrounding area (check only one):

- Wilderness:** outstanding natural beauty; usually wooded or un-pastured area: water clarity exceptional
- Natural Area:** trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored
- Common Setting:** not offensive, developed but uncluttered; water may be colored or turbid
- Offensive:** stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

# INDUSTRIAL WASTEWATER PERMIT APPLICATION

## WORKSHEET 4.1: WATERBODY PHYSICAL CHARACTERISTICS

The following information is **required** for new applications, EPA-designated Major facilities, and major amendment applications requesting to add an outfall if the receiving waters are perennial or intermittent with perennial pools (including impoundments) for a TDPES permit.

Complete the transects downstream of the existing or proposed discharges.

### Item 1. Data Collection (Instructions, Page 82)

- a. Date of study: 8/26/2024      Time of study: Approximately 12:00 PM  
 Waterbody name: Harris County Flood Control Ditch D120-00-00  
 General location: Downstream of South Kirkwood Road crossing
  
- b. Type of stream upstream of an existing discharge or downstream of a proposed discharge (check only one):  
 perennial     intermittent with perennial pools     impoundment
  
- c. No. of defined stream bends:  
 Well: N/A                      Moderately: 2    Poorly: N/A
  
- d. No. of riffles: N/A
  
- e. Evidence of flow fluctuations (check one):  
 Minor                       Moderate                       Severe
  
- f. Provide the observed stream uses and where there is evidence of channel obstructions/modifications: Drainage ditch
  
- g. Complete the following table with information regarding the transect measurements.

**Stream Transect Data**

Transect Location	Habitat Type*	Water Surface Width (ft)	Stream Depths (ft)**								
(29.684611°, -95.587201°)	Glide	20.1	1.0	1.2	1.3						
(29.684594°, -95.587010°)	Glide	14	1.2	1.7	1.3						
(29.684303°, -95.586123°)	Glide	15.35	1.2	1.3	1.3						
(29.684203°, -95.585974°)	Glide	14.125	1.6	1.8	0.8						

Transect Location	Habitat Type*	Water Surface Width (ft)	Stream Depths (ft)**								

\* riffle, run, glide, or pool  
 \*\* channel bed to water surface

## Item 2. Summarize Measurements (Instructions, Page 83)

Provide the following information regarding the transect measurements:

Streambed slope of entire reach (from USGS map in ft. /ft.): Approximately 0.00118

Approximate drainage area above the most downstream transect from USGS map or county highway map (square miles): 1.09

Length of stream evaluated (ft): 560

Number of lateral transects made: 4

Average stream width (ft): 16

Average stream depth (ft): 1.3

Average stream velocity (ft/sec): 0.2

Instantaneous stream flow (ft<sup>3</sup>/sec): 4.4

Indicate flow measurement method (VERY IMPORTANT - type of meter, floating chip timed over a fixed distance, etc.): Floating chip method

Flow fluctuations (i.e., minor, moderate, or severe): Minor

Size of pools (i.e., large, small, moderate, or none): N/A

Maximum pool depth (ft): N/A

Total number of stream bends: 2

Number well defined: N/A

Number moderately defined: 2

Number poorly defined: N/A

Total number of riffles: None

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: SEWAGE SLUDGE MANAGEMENT AND DISPOSAL

The following information **is required** for all TPDES permit applications that meet the conditions as outlined in Technical Report 1.0, Item 7.

## Item 1. Sewage Sludge Solids Management Plan (Instructions, Page 84)

a. Is this a new permit application or an amendment permit application?

- Yes       No

b. Does or will the facility discharge in the Lake Houston watershed?

- Yes       No

If **yes** to either Item 1.a or 1.b, attach a solids management plan. **Attachment:** [Click to enter text.](#)

## Item 2. Sewage Sludge Management and Disposal (Instructions, Page 84)

a. Check the box next to the sludge disposal method(s) authorized under the facility's existing permit (check all that apply).

- Permitted landfill
- Marketing and distribution by the permittee, attach Form TCEQ-00551
- Registered land application site, attach Form TCEQ-00565
- Processed by the permittee, attach Form TCEQ-00744
- Surface disposal site (sludge monofill), attach Form TCEQ-00744
- Transported to another WWTP
- Beneficial land application, attach Form TCEQ-10451
- Incineration, attach Form TCEQ-00744

Based on the selection(s) made above, complete and attach the required TCEQ forms as directed. Failure to submit the required TCEQ form will result in delays in processing the application

**Attachment:** [Click to enter text.](#)

b. Provide the following information for each disposal site:

Disposal site name: [Click to enter text.](#)

TCEQ Permit/Registration Number: [Click to enter text.](#)

County where disposal site is located: [Click to enter text.](#)

c. Method of sewage sludge transportation:

truck     train     pipe     other: [Click to enter text.](#)

TCEQ Hauler Registration Number: [Click to enter text.](#)

d. Sludge is transported as a:

liquid     semi-liquid     semi-solid     solid

e. Purpose of land application:     reclamation     soil conditioning     N/A

f. If sewage sludge is transported to another WWTP for treatment, attach a written statement or copy of contractual agreements confirming that the WWTP identified above will accept and be responsible for the sludge from this facility for the life of the permit (at least 5 years).

**Attachment:** [Click to enter text.](#)

### Item 3. Authorization for Sewage Sludge Disposal (Instructions, Page 85)

If this is a new or major amendment application which requests authorization of a new sewage sludge disposal method, check the new sewage disposal method(s) requested for authorization (check all that apply):

- Marketing and distribution by the permittee, attach Form TCEQ-00551
- Processed by the permittee, attach Form TCEQ-00744
- Surface disposal site (sludge monofill), attach Form TCEQ-00744
- Beneficial land application, attach Form TCEQ-10451
- Incineration, attach Form TCEQ-00744

Based on the selection(s) made above, complete and attach any required TCEQ forms, as directed. Failure to submit the required TCEQ form will result in delays in processing the application.

**Attachment:** [Click to enter text.](#)

**NOTE:** New authorization for beneficial land application, incineration, processing, or disposal in the TPDES permit or TLAP **requires a major amendment to the permit.** New authorization for composting may require a major amendment to the permit. See the instructions to determine if a major amendment is required or if authorization for composting can be added through the renewal process.

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 7.0: STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES

This worksheet **is required** for all TPDES permit applications requesting individual permit coverage for discharges consisting of **either**: 1) solely of stormwater discharges associated with industrial activities, as defined in *40 CFR § 122.26(b)(14)(i-xi)*, **or** 2) stormwater discharges associated with industrial activities and any of the listed allowable non-stormwater discharges, as defined in the MSGP (TXR05000), Part II, Section A, Item 6.

Discharges of stormwater as defined in *40 CFR § 122.26 (b)(13)* are not required to obtain authorization under a TPDES permit (see exceptions at *40 CFR §§ 122.26(a)(1)* and *(9)*). Authorization for discharge may be required from a local municipal separate storm sewer system.

## Item 1. Applicability (Instructions, Page 89)

Do discharges from any of the existing/proposed outfalls consist either 1) solely of stormwater discharges associated with industrial activities **or** 2) stormwater discharges associated with industrial activities and any of the allowable non-stormwater discharges?

Yes  No

If **no**, stop here. If **yes**, proceed as directed.

## Item 2. Stormwater Coverage (Instructions, Page 89)

List each existing/proposed stormwater outfall at the facility and indicate which type of authorization covers or is proposed to cover discharges.

### Authorization Coverage

Outfall	Authorization under MSGP	Authorized Under Individual Permit
001	<input checked="" type="checkbox"/> Stormwater that does not contact the landfill waste	<input checked="" type="checkbox"/> Stormwater and leachate that contacts the landfill waste
	<input type="checkbox"/>	<input type="checkbox"/>

If **all** existing/proposed outfalls which discharge stormwater associated with industrial activities (and any of the allowable non-stormwater discharges) are **authorized under the MSGP**, **stop** here.

If **seeking authorization** for any outfalls which discharge stormwater associated with industrial activities (and any of the allowable non-stormwater discharges) **under an individual permit**, **proceed**.

**NOTE: The following information is required for each existing/proposed stormwater outfall for which the facility is seeking individual permit authorization under this application**

**Item 3. Site Map (Instructions, Page 90)**

Attach a site map or maps (drawn to scale) of the entire facility with the following information.

- the location of each stormwater outfall to be covered by the permit
- an outline of the drainage area that is within the facility’s boundary and that contributes stormwater to each outfall to be covered by the permit
- connections or discharge points to municipal separate storm sewer systems
- locations of all structures (e.g. buildings, garages, storage tanks)
- structural control devices that are designed to reduce pollution in discharges of stormwater associated with industrial activities
- process wastewater treatment units (including ponds)
- bag house and other air treatment units exposed to stormwater (stormwater runoff, snow melt runoff, and surface runoff and drainage)
- landfills; scrapyards; surface water bodies (including wetlands)
- vehicle and equipment maintenance areas
- physical features of the site that may influence discharges of stormwater associated with industrial activities or contribute a dry weather flow
- locations where spills or leaks of reportable quality (as defined in 30 TAC § 327.4) have occurred during the three years before this application was submitted to obtain coverage under an individual permit
- processing areas, storage areas, material loading/unloading areas, and other locations where significant materials are exposed to stormwater (stormwater runoff, snow melt runoff, and surface runoff and drainage)

Check the box to confirm all above information was provided on the facility site map(s).

**Attachment:** 10

**Item 4. Facility/Site Information (Instructions, Page 90)**

a. Provide the area of impervious surface and the total area drained by each stormwater outfall requested for authorization by this permit application.

**Impervious Surfaces**

<b>Outfall</b>	<b>Area of Impervious Surface (include units)</b>	<b>Total Area Drained (include units)</b>
001	0 acres; property is undeveloped	136.89 acres

- b. Provide the following local area rainfall information and the source of the information.  
 Wettest month: June  
 Average rainfall for wettest month (total inches): 5.9 inches  
 25-year, 24-hour rainfall (inches): 12.1 inches  
 Source: National Oceanic and Atmospheric Administration (NOAA)
- c. Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation. **Attachment:** Landfill waste during construction
- d. Attach narrative descriptions of the industrial processes and activities involving the materials in the above-listed inventory that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff (see instructions for guidance). **Attachment:** Removal of landfill waste to facilitate construction of site infrastructure, i.e., roads, drainage ditches, and detention basins.
- e. Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility: Temporarily covering waste with soil to prevent stormwater contact using berms to control the run-on of stormwater.

## Item 5. Pollutant Analysis (Instructions, Page 91)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): N/A
- b.  Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Complete Table 17 as directed on page 92 of the Instructions.

Table 17 for Outfall No.: N/A; No existing outfall to sample the stormwater

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled	MAL (mg/L)
pH (standard units)	(max)	—	(min)	—		—
Total suspended solids						—
Chemical oxygen demand						—
Total organic carbon						—
Oil and grease						—
Arsenic, total						0.0005
Barium, total						0.003
Cadmium, total						0.001
Chromium, total						0.003
Chromium, trivalent						—
Chromium, hexavalent						0.003



Attachment: N/A

## Item 6. Storm Event Data (Instructions, Page 93)

Provide the following data for the storm event(s) which resulted in the maximum values for the analytical data submitted:

Date of storm event: N/A

Duration of storm event (minutes): N/A

Total rainfall during storm event (inches): N/A

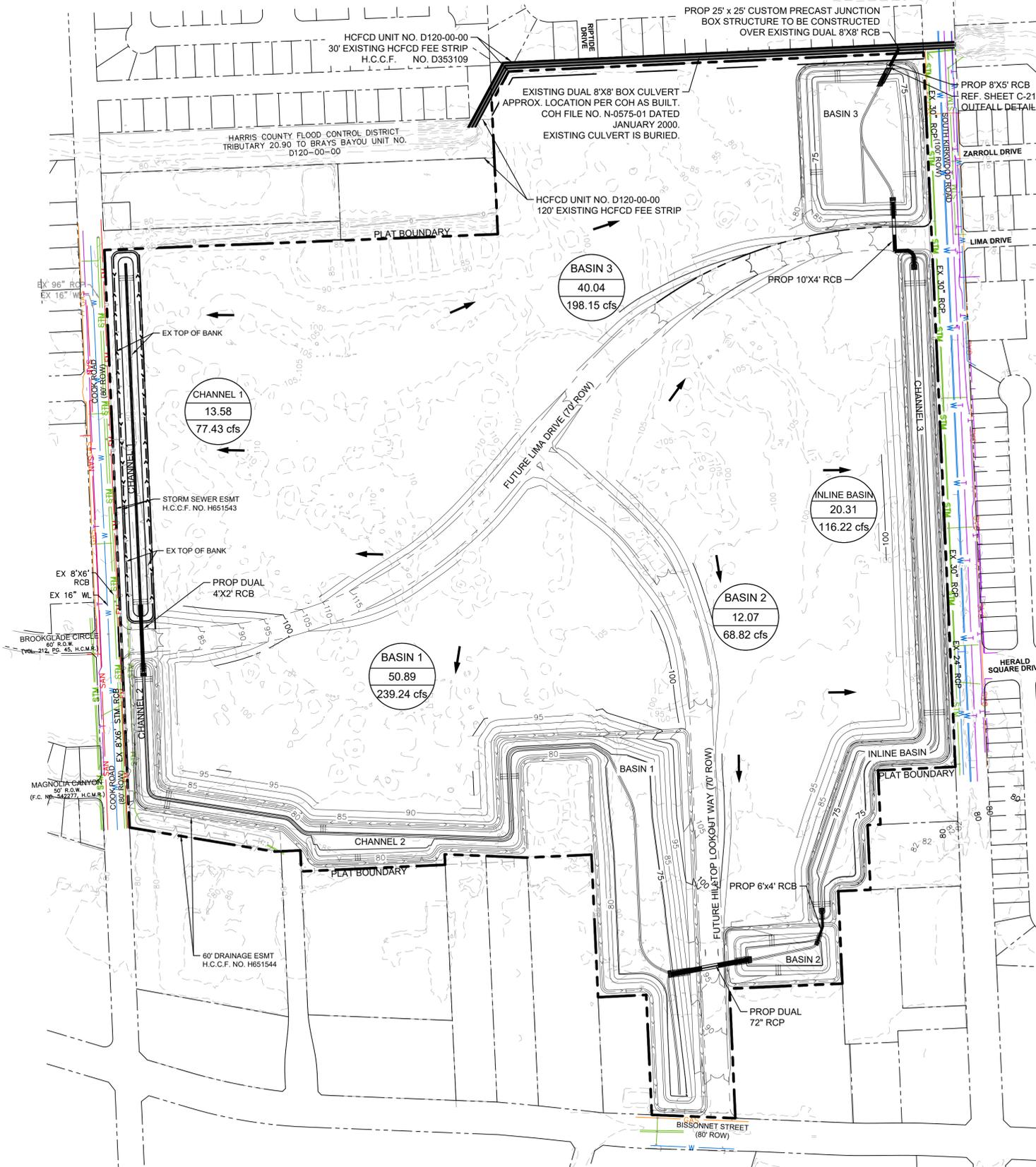
Number of hours the between beginning of the storm measured and the end of the previous measurable storm event (hours): N/A

Maximum flow rate during rain event (gallons/minute): N/A

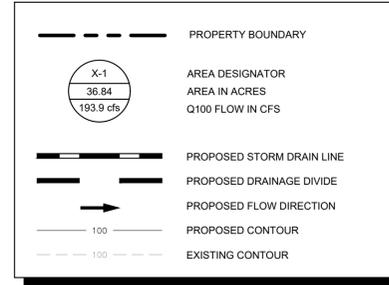
Total stormwater flow from rain event (gallons): N/A

Provide a description of the method of flow measurement or estimate:

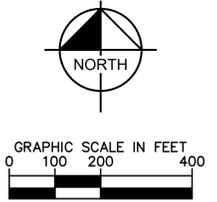
Proposed outfall does not exist. The laboratory analysis is based on the worst case scenario with samples collected from leachate from SB-57 that may mix with stormwater during excavation under the proposed development.



**LEGEND**



CONSTRUCTION IN HARRIS COUNTY FLOOD CONTROL DISTRICT RIGHT-OF-WAY REQUIRES:  
 SITE PLANS MUST BE APPROVED PRIOR TO OBTAINING THE REQUIRED HCFCF RIGHT-OF-WAY NOTIFICATION. BE ADVISED THAT THE HCFCF RIGHT-OF-WAY NOTIFICATION IS SEPARATE FROM THE SITE DEVELOPMENT PERMIT PACKAGE.  
 1.) HCFCF RIGHT-OF-WAY NOTIFICATION (PERMIT)  
 2.) HCFCF 48-HR PRE-CONSTRUCTION NOTICE  
 BOTH ARE REQUIRED PRIOR TO ENTERING OR WORKING WITHIN HARRIS COUNTY FLOOD CONTROL DISTRICT RIGHT-OF-WAY. THE HCFCF RIGHT-OF-WAY NOTIFICATION AND 48-HR NOTICE MUST BE PROVIDED TO HCFCF AT DCID@HCFCF.HCTX.NET.  
 TO APPLY FOR THE HCFCF RIGHT-OF-WAY NOTIFICATION PLEASE GO TO <http://apps.harriscountytx.gov/EPermits> AND APPLY FOR THE HCFCF ROW UNDER ROW NOTIFICATION.  
 FAILURE TO PROVIDE BOTH ITEMS COULD RESULT IN PROJECT DELAYS.



NOTE: PROPOSED DRIVEWAY & SIDEWALKS ARE PART OF OCE PLANS. SIDEWALKS ARE BASED ON PLANNING DEPARTMENT REQUIREMENTS.  
 OCE ILM NO. 23005786

**DRAINAGE GENERAL NOTES**

- CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- SEE STORM DRAIN PLAN & PROFILE SHEETS FOR DETAILED INFORMATION ON STORM DRAIN LINES.
- ALL STORM DRAIN LINES SHALL BE RCP, CLASS III UNLESS OTHERWISE NOTED.
- FOR DETAILED HYDRAULICS & HYDROLOGY INFORMATION REFERENCE THE APPROVED 12000 BISSONNET MASTER DRAINAGE PLAN, HCFCF # 2201250077.
- THERE IS NO FLOODPLAIN FILL MITIGATION IN THIS PROJECT. SEE SHEET C-20 FOR FLOODPLAIN CALCULATIONS.

Table 11: Detention Volume Comparison

Phase	Developed Area (ac)	Assumed Impervious %	100-Year Storage Provided (ac-ft)	100-Year Storage Provided (ac-ft/ac)
Phase I	58	85%	67.43	1.16
Fully Developed	136	85%	110.21	0.81

Table 13: HCFCF Detention Summary Table (Fully Developed)

Flow (cfs)	Detention Basin Service Area		
	136	acres	
	Offsite Drainage Area		
	0 acres		
	Storm Event		
	50% (2-yr)	10% (10-yr)	1% (100-yr)
	203	312	515
	Post-Development Inflow		
	77	130	243
	Maximum Allowable Outflow (Pre-development Peak Runoff)		
	76	120	241
	Maximum Outflow Provided (Peak Flow from Basin)		
	83.0'		
	Lowest Natural or Finished Ground Elevation Estimate		
	82.0'		
	Maximum Allowable Water Surface		
	Based on Reference Marker 040515		
	Varies	Varies	Varies
	Design Water Surface Elevation		
	Varies	Varies	Varies
	Water Surface Elevation Calculated		
	N/A	N/A	0.65
	Minimum Storage Required (ac-ft)		
	34.84	60.10	110.21
	Detention Storage Provided (ac-ft)		
	0.26	0.44	0.81
	Storage Rate Provided (ac-ft/acre)		
	1 - 5.00' x 1.25' Rectangular Orifice		
	1 - 6.00' x 1.25' Rectangular Orifice		
	8' x 5' Box Culvert		
	3.95	3.15	6.03
	Outflow Velocity into Channel (ft/second)		
	8' Weir at Elevation 77.5'		
	Weir Description		
	8.89		
	Drain Time - 1% only (hours)		
	175' Overflow Weir, 1' deep		
	Emergency Overflow		

Table 9: Proposed Detention Volumes

Pond Name	Area (ac)		Volume (ac-ft)
	Phase I	Fully Developed	
Pond 1	11.74	25.00	
Pond 2	1.50	2.67	
Inline Pond	5.46	10.69	
Pond 3	4.46	29.06	
Total	23.16	67.43	
Fully Developed			
Pond 1	11.74	32.49	
Pond 2	1.50	3.40	
Inline Pond	5.46	12.72	
Pond 3	9.39	57.66	
Channel	2.26	3.94	
Total	30.35	110.21	

**NOTICE:**  
 FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

**VERIFICATION OF PRIVATE UTILITY LINES**

Date \_\_\_\_\_  
 CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for conflict verification.  
 Signature valid for six months.

Date \_\_\_\_\_  
 CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This signature verifies existing underground facilities - not to be used for conflict verification)  
 Signature valid for six months.

Approved for AT&T underground conduit facilities only. Signature valid for one year.

**Kimley»Horn**  
 11700 Katy Freeway, Suite 800 Houston, Texas 77079  
 TBPE Firm Registration F-928  
 Tel. No. (281) 597-9300

FOR REVIEW ONLY  
 Not for construction or permit purposes.  
**Kimley»Horn**  
 Engineer, ROSE C. KAETZER  
 P.E. No. 141983 exp. 08/23/2025

**KIRKWOOD CROSSING**  
 HOUSTON, TX 77048

**DETENTION SERVICE AREA MAP**

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

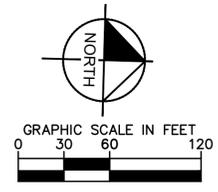
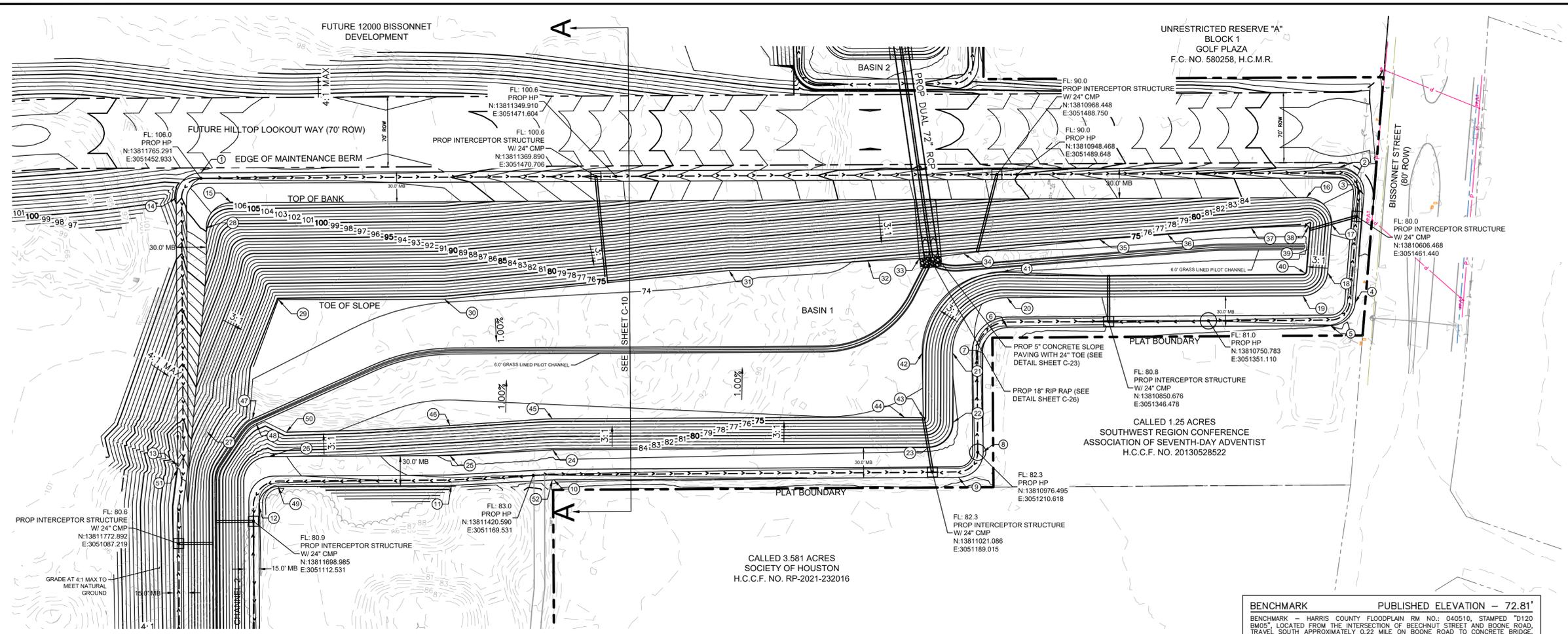
**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

WATER \_\_\_\_\_ STORM WATER QUALITY \_\_\_\_\_  
 WASTE WATER \_\_\_\_\_ FACILITIES \_\_\_\_\_  
 STORM WATER \_\_\_\_\_ TRAFFIC & TRANSPORTATION/STREET & BRIDGE \_\_\_\_\_

FILE NO. \_\_\_\_\_ HORIZ: \_\_\_\_\_  
 \_\_\_\_\_ VERT: \_\_\_\_\_

SHEET NO. C-06 OF C-28 DRAWING SCALE \_\_\_\_\_  
 FOR CITY OF HOUSTON USE ONLY

NO.	DATE	REVISION	APP.



NO.	DATE	REVISION	APP.

**NOTICE:**  
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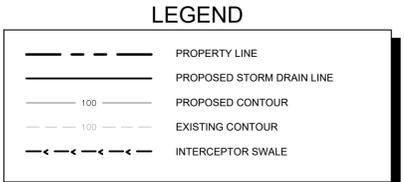
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 Signature valid for six months.

Date  
 Approved for AT&T underground conduit facilities only.  
 Signature valid for one year.

# BASIN 1



**BENCHMARK PUBLISHED ELEVATION – 72.81'**  
 BENCHMARK – HARRIS COUNTY FLOODPLAIN RM NO.: 040510, STAMPED "D120 BMO5", LOCATED FROM THE INTERSECTION OF BECHNUT STREET AND BOONE ROAD, TRAVEL SOUTH APPROXIMATELY 0.22 MILES ON BOONE ROAD TO CONCRETE BRIDGE MONUMENT IS LOCATED ON EAST CENTERLINE SIDEWALK AT CENTERLINE STREAM, NAVD88 (2001 ADJUSTED).

**TEMPORARY BENCHMARK "A" ELEVATION – 79.02'**  
 BOX CUT ON THE SOUTH END OF A MEDIAN ON THE NORTH END OF A BULL NOSE, LOCATED ON THE CENTER LINE OF COOK ROAD, APPROXIMATELY 30.0' NORTH FROM THE INTERSECTION OF COOK ROAD AND BROOKGLADE CIRCLE.

**TEMPORARY BENCHMARK "B" ELEVATION – 78.95'**  
 BOX CUT ON THE SOUTH END OF A MEDIAN ON THE NORTH END OF A BULL NOSE, LOCATED ON THE CENTER LINE OF COOK ROAD, APPROXIMATELY 30.0' NORTH FROM THE INTERSECTION OF COOK ROAD AND MAGNOLIA CANYON.

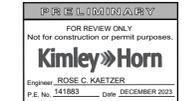
**TEMPORARY BENCHMARK "C" ELEVATION – 81.34'**  
 BOX CUT ON STORM INLET LOCATED ON THE NORTH LINE OF BISSONNET STREET, +/- 1,000 FEET WEST FROM THE INTERSECTION OF BISSONNET STREET AND SOUTH KIRKWOOD ROAD.

**TEMPORARY BENCHMARK "D" ELEVATION – 76.20'**  
 BOX CUT ON STORM INLET LOCATED ON THE WEST LINE OF SOUTH KIRKWOOD ROAD, +/- 200 FEET NORTH FROM THE INTERSECTION OF ZARROLL DRIVE AND SOUTH KIRKWOOD ROAD.

**Kimley»Horn**

11700 Katy Freeway,  
 Suite 800 Houston, Texas 77079  
 TBPE Firm Registration F-928

Tel. No. (281) 597-9300



**KIRKWOOD CROSSING**  
 HOUSTON, TX 77048

# BASIN 1 LAYOUT

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE
FILE NO.	HORIZ:
	VERT:
SHEET NO. C-07 OF C-28	DRAWING SCALE
FOR CITY OF HOUSTON USE ONLY	

POINT NO.	DESCRIPTION	ELEVATION	NORTHING	EASTING
1	EDGE OF MB	106.50	13811765.5383	3051458.4278
2	EDGE OF MB	83.40	13810626.1579	3051509.6410
3	EDGE OF MB	82.60	13810600.0561	3051483.6454
4	EDGE OF MB	81.70	13810604.4864	3051375.2365
5	EDGE OF MB	81.00	13810628.3075	3051351.2841
6	EDGE OF MB	82.10	13810951.8643	3051336.2797
7	EDGE OF MB	82.30	13810975.6785	3051310.1298
8	EDGE OF MB	82.90	13810971.0016	3051210.8772
9	EDGE OF MB	82.80	13810994.8158	3051184.7273
10	EDGE OF MB	83.40	13811399.9208	3051165.9412
11	EDGE OF MB	83.71	13811502.2169	3051156.2217
12	EDGE OF MB	81.71	13811694.1852	3051127.7691
13	EDGE OF MB	81.40	13811776.9839	3051164.6941
14	EDGE OF MB	105.50	13811789.3890	3051432.2953
15	TOP OF BANK	107.03	13811734.1794	3051429.8070
16	TOP OF BANK	83.83	13810657.7423	3051478.1910

POINT NO.	DESCRIPTION	ELEVATION	NORTHING	EASTING
17	TOP OF BANK	82.00	13810631.3659	3051452.2078
18	TOP OF BANK	82.00	13810633.3388	3051403.9307
19	TOP OF BANK	82.00	13810657.1599	3051379.9784
20	TOP OF BANK	82.60	13810953.2540	3051366.2475
21	TOP OF BANK	83.90	13811005.6453	3051308.7177
22	TOP OF BANK	84.20	13811002.3814	3051239.4543
23	TOP OF BANK	84.20	13811026.1956	3051213.3044
24	TOP OF BANK	84.48	13811402.1749	3051195.8689
25	TOP OF BANK	84.20	13811504.9442	3051186.1052
26	TOP OF BANK	82.00	13811886.3953	3051177.6844
27	TOP OF BANK	81.69	13811749.1320	3051199.9219
28	TOP OF BANK	105.30	13811758.0300	3051403.6746
29	TOE OF SLOPE	74.60	13811683.0006	3051335.0510
30	TOE OF SLOPE	74.03	13811516.7543	3051342.0739
31	TOE OF SLOPE	74.11	13811232.8404	3051382.1007
32	TOE OF SLOPE	73.87	13811094.0553	3051397.1580

POINT NO.	DESCRIPTION	ELEVATION	NORTHING	EASTING
33	TOE OF SLOPE	73.36	13811042.6178	3051401.8794
34	TOE OF SLOPE	73.75	13810998.7261	3051408.4866
35	TOE OF SLOPE	74.84	13810863.3104	3051428.1861
36	TOE OF SLOPE	74.82	13810795.0961	3051435.6397
37	TOE OF SLOPE	74.82	13810711.7689	3051445.8432
38	TOE OF SLOPE	74.85	13810654.2852	3051449.3260
39	TOE OF SLOPE	74.84	13810653.9073	3051426.4238
40	TOE OF SLOPE	74.83	13810655.6917	3051402.6861
41	TOE OF SLOPE	74.12	13810959.1468	3051391.4556
42	TOE OF SLOPE	73.71	13811036.1694	3051307.2793
43	TOE OF SLOPE	74.26	13811032.3424	3051242.8917
44	TOE OF SLOPE	74.17	13811050.9728	3051242.3302
45	TOE OF SLOPE	74.14	13811403.8031	3051226.8686
46	TOE OF SLOPE	74.26	13811505.8948	3051215.9705
47	TOE OF SLOPE	73.65	13811703.8949	3051214.7106
48	TOE OF SLOPE	73.64	13811700.0191	3051209.9350

POINT NO.	DESCRIPTION	ELEVATION	NORTHING	EASTING
49	EDGE OF MB	83.47	13811675.6094	3051148.1512
50	TOE OF SLOPE	73.91	13811669.4887	3051203.0105
51	EDGE OF MB	81.80	13811777.0422	3051161.4752
52	EDGE OF MB	83.40	13811401.4036	3051165.8362

**TCEQ DETENTION POND CONSTRUCTION NOTES**

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CONSTRUCTION IN HARRIS COUNTY FLOOD CONTROL DISTRICT RIGHT-OF-WAY REQUIRES:

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1.) HCFCO RIGHT-OF-WAY NOTIFICATION (PERMIT)  
 2.) HCFCO 48-HR PRE-CONSTRUCTION NOTICE

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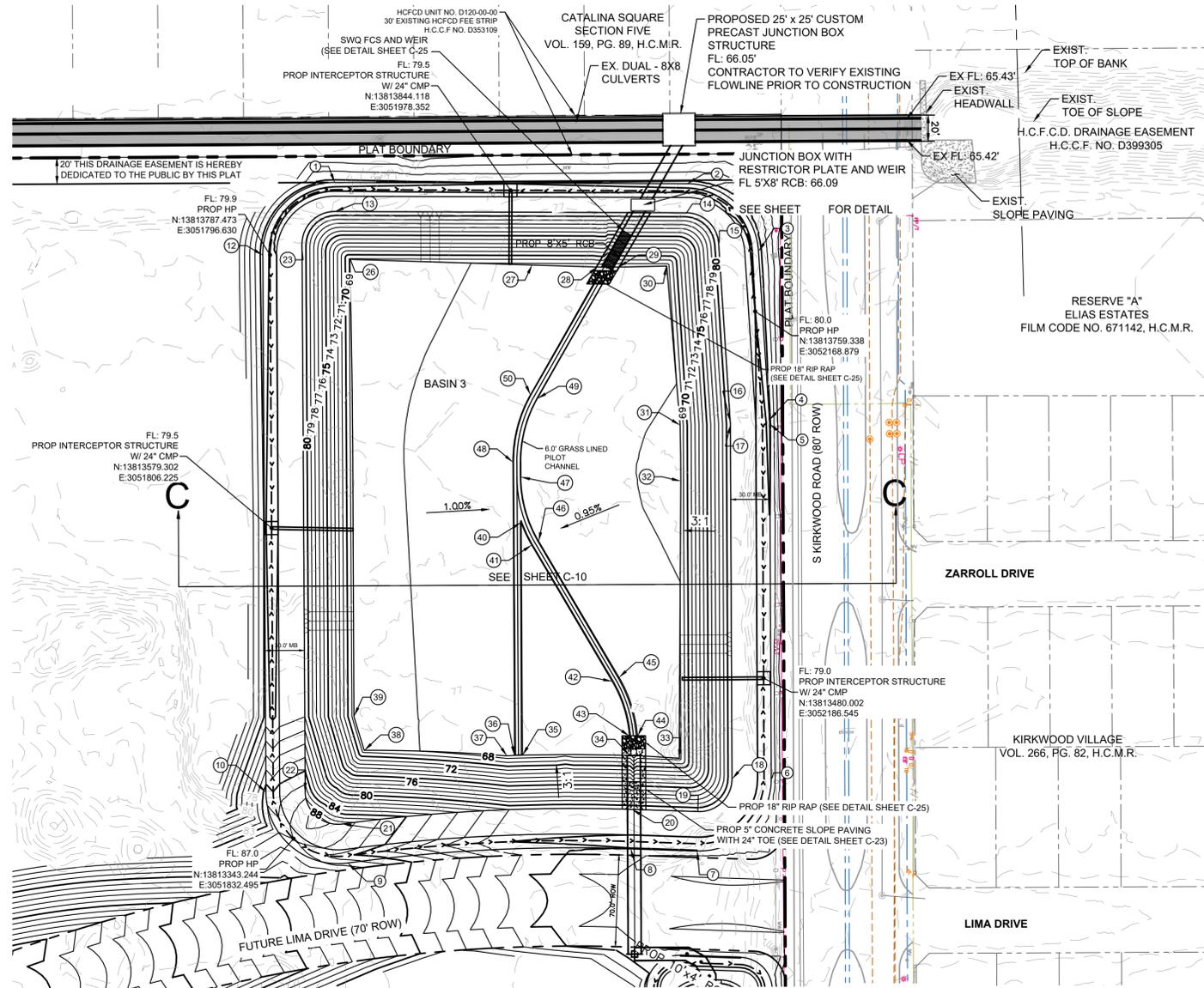
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# BASIN 3

POINT NO.	DESCRIPTION	ELEVATION	NORTHING	EASTING
1	EDGE OF MB	80.30	13813844.7159	3051844.0891
2	EDGE OF MB	80.30	13813854.5361	3052112.8463
3	EDGE OF MB	80.50	13813805.3497	3052169.5502
4	EDGE OF MB	80.23	13813677.1819	3052183.0872
5	EDGE OF MB	80.22	13813673.8747	3052183.3359
6	EDGE OF MB	79.80	13813403.7869	3052195.4760
7	EDGE OF MB	80.00	13813346.3184	3052140.8942
8	EDGE OF MB	80.00	13813345.9830	3052090.0358
9	EDGE OF MB	86.50	13813326.4048	3051874.4905
10	EDGE OF MB	85.50	13813378.0364	3051809.9962
12	TOP OF BANK	80.50	13813787.2202	3051791.1356
13	TOP OF BANK	81.00	13813822.5633	3051844.8036
14	TOP OF BANK	81.00	13813832.3665	3052113.1167
15	TOP OF BANK	81.00	13813810.0090	3052138.8912
16	TOP OF BANK	81.00	13813674.0309	3052153.2531
17	TOP OF BANK	81.00	13813672.5276	3052153.3662
18	TOP OF BANK	81.00	13813402.4398	3052165.5063
19	TOP OF BANK	81.00	13813376.3177	3052140.6964
20	TOP OF BANK	81.00	13813375.9823	3052089.8380
21	TOP OF BANK	87.50	13813355.9488	3051869.2800

POINT NO.	DESCRIPTION	ELEVATION	NORTHING	EASTING
22	TOP OF BANK	86.53	13813379.4177	3051839.9644
23	TOP OF BANK	81.00	13813796.4288	3051820.7429
26	TOE OF SLOPE	68.84	13813786.5333	3051857.7151
27	TOE OF SLOPE	67.57	13813787.8318	3051997.3289
28	TOE OF SLOPE	67.23	13813788.2934	3052046.9612
29	TOE OF SLOPE	67.12	13813788.8807	3052063.0401
30	TOE OF SLOPE	67.44	13813791.1632	3052099.9599
31	TOE OF SLOPE	68.20	13813670.3991	3052115.0179
32	TOE OF SLOPE	68.31	13813627.7398	3052117.2625
33	TOE OF SLOPE	67.61	13813416.3861	3052124.6656
34	TOE OF SLOPE	67.29	13813417.0930	3052086.7579
35	TOE OF SLOPE	67.28	13813413.9363	3052004.6890
36	TOE OF SLOPE	67.28	13813413.5873	3051998.6986
37	TOE OF SLOPE	67.33	13813412.9170	3051993.1123
38	TOE OF SLOPE	68.43	13813412.8004	3051883.7163
39	TOE OF SLOPE	68.49	13813438.6509	3051874.8060
40	PILOT CHANNEL	67.19	13813591.2109	3051996.6192
41	PILOT CHANNEL	67.28	13813574.2888	3052005.4571
42	PILOT CHANNEL	67.94	13813473.0053	3052070.9659
43	PILOT CHANNEL	68.09	13813431.9452	3052085.8190

POINT NO.	DESCRIPTION	ELEVATION	NORTHING	EASTING
44	PILOT CHANNEL	68.15	13813432.2188	3052091.8285
45	PILOT CHANNEL	67.99	13813476.2638	3052076.0040
46	PILOT CHANNEL	67.33	13813577.5474	3052010.4952
47	PILOT CHANNEL	67.17	13813625.8161	3051995.0440
48	PILOT CHANNEL	67.17	13813637.0585	3051988.5260
49	PILOT CHANNEL	67.14	13813686.3224	3052005.2706
50	PILOT CHANNEL	67.14	13813689.0799	3051999.9419

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- HCPCD RIGHT-OF-WAY NOTIFICATION (PERMIT)
- HCPCD 48-HR PRE-CONSTRUCTION NOTICE

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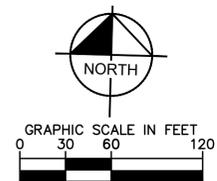
TO APPLY FOR THE HCPCD RIGHT-OF-WAY NOTIFICATION PLEASE GO TO <http://apps.harriscountytx.gov/EP/permits> AND APPLY FOR THE HCPCD ROW UNDER ROW NOTIFICATION.

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NO.	DATE	REVISION	APP.

**NOTICE:**  
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**VERIFICATION OF PRIVATE UTILITY LINES**

Date  
CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for conflict verification.  
Signature valid for six months.

Date  
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**Kimley»Horn**

11700 Katy Freeway,  
Suite 800 Houston, Texas 77079  
TBPE Firm Registration F-928  
Tel. No. (281) 597-9300

FOR REVIEW ONLY  
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**Kimley»Horn**  
Engineer: ROSE C. KAETZER  
P.E. No. 141983 exp. 05/31/2025

**KIRKWOOD CROSSING**  
HOUSTON, TX 77048

# BASIN 3 LAYOUT

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE
FILE NO.	HORIZ:
	VERT:
SHEET NO. C-09 OF C-28	DRAWING SCALE
FOR CITY OF HOUSTON USE ONLY	

# CROSS SECTION A-A BASIN 1

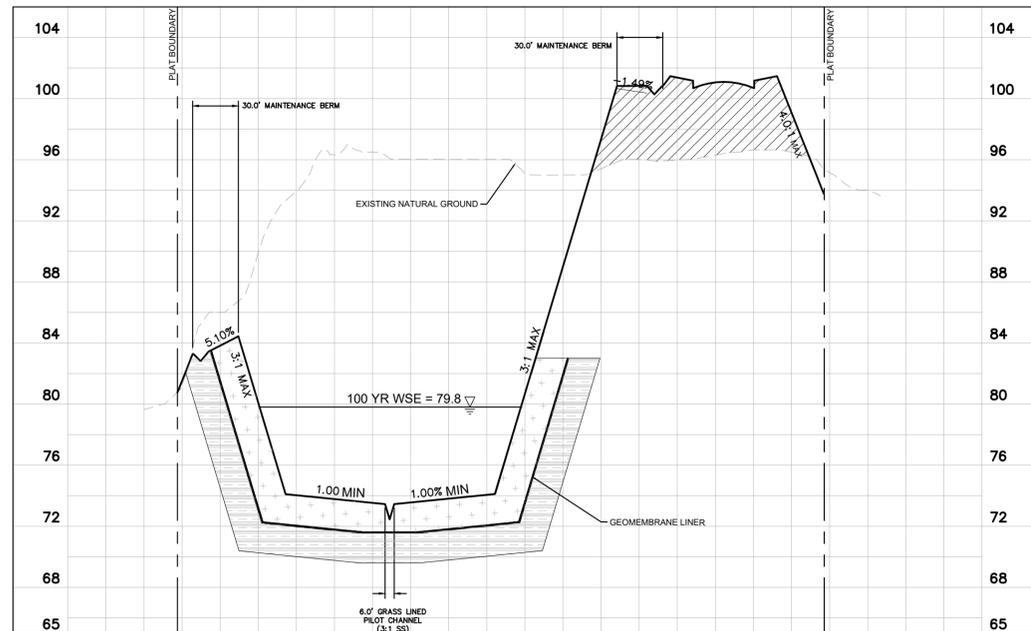
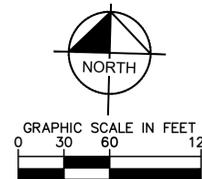
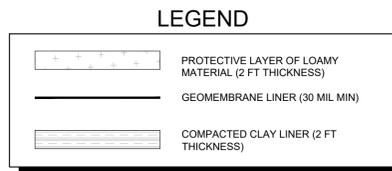
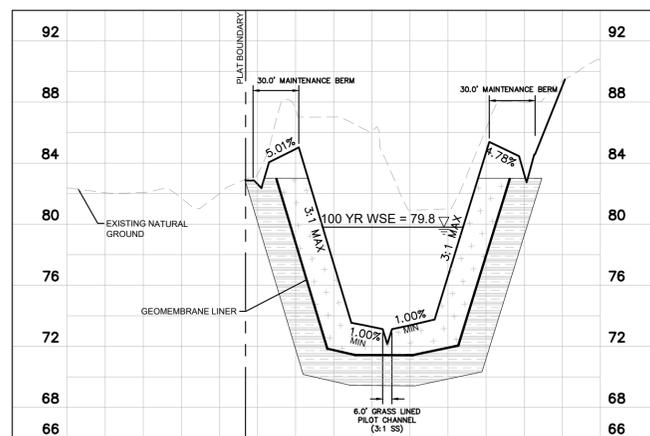


Table 12: Detention Pond 100-Year WSE	
Pond	WSE (ft)
<b>Phase I</b>	
Pond 1	79.8
Pond 2	79.8
Pond 3	79.0
<b>Fully Developed</b>	
Pond 1	81.0
Pond 2	81.0
Pond 3	80.0



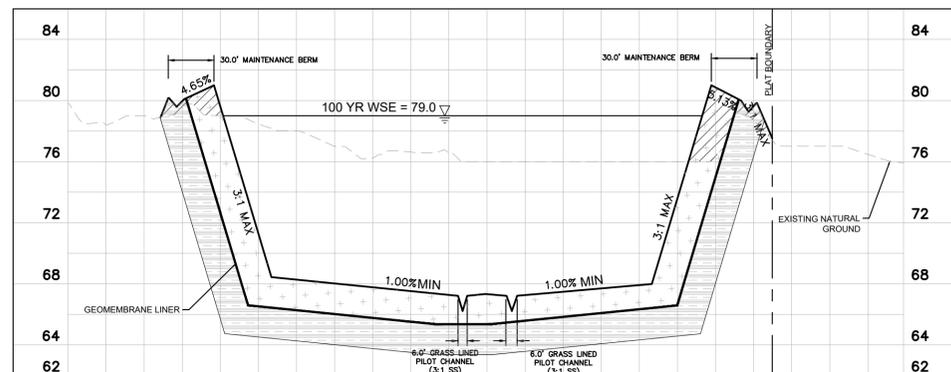
# CROSS SECTION B-B BASIN 2



- TCEQ DETENTION POND CONSTRUCTION NOTES**
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- BENCHMARK PUBLISHED ELEVATION - 72.81'**  
 BENCHMARK - HARRIS COUNTY FLOODPLAIN RM NO.: 040510, STAMPED "D120 BM05", LOCATED FROM THE INTERSECTION OF BEECHNUT STREET AND BOONE ROAD, TRAVEL SOUTH APPROXIMATELY 0.22 MILE ON BOONE ROAD TO CONCRETE BRIDGE. MONUMENT IS LOCATED ON EAST CENTERLINE SIDEWALK AT CENTERLINE STREAM. NAVD83 (2001 ADJUSTED).
- TEMPORARY BENCHMARK "A" ELEVATION - 79.02'**  
 BOX CUT ON THE SOUTH END OF A MEDIAN ON THE NORTH END OF A BULL NOSE, LOCATED ON THE CENTER LINE OF COOK ROAD, APPROXIMATELY 30.0' NORTH FROM THE INTERSECTION OF COOK ROAD AND BROOKGLADE CIRCLE.
- TEMPORARY BENCHMARK "B" ELEVATION - 78.95'**  
 BOX CUT ON THE SOUTH END OF A MEDIAN ON THE NORTH END OF A BULL NOSE, LOCATED ON THE CENTER LINE OF COOK ROAD, APPROXIMATELY 30.0' NORTH FROM THE INTERSECTION OF COOK ROAD AND MAGNOLIA CANYON.
- TEMPORARY BENCHMARK "C" ELEVATION - 81.34'**  
 BOX CUT ON STORM INLET LOCATED ON THE NORTH LINE OF BISSONNET STREET, +/- 1,000 FEET WEST FROM THE INTERSECTION OF BISSONNET STREET AND SOUTH KIRKWOOD ROAD.
- TEMPORARY BENCHMARK "D" ELEVATION - 76.20'**  
 BOX CUT ON STORM INLET LOCATED ON THE WEST LINE OF SOUTH KIRKWOOD ROAD, +/- 200 FEET NORTH FROM THE INTERSECTION OF ZARROLL DRIVE AND SOUTH KIRKWOOD ROAD.

# CROSS SECTION C-C BASIN 3



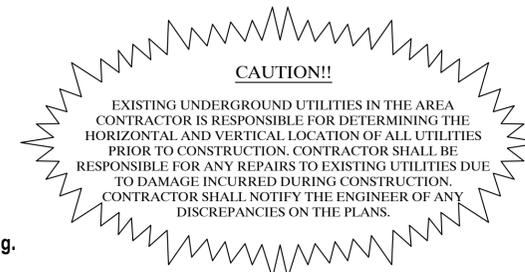
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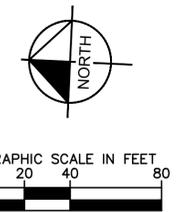
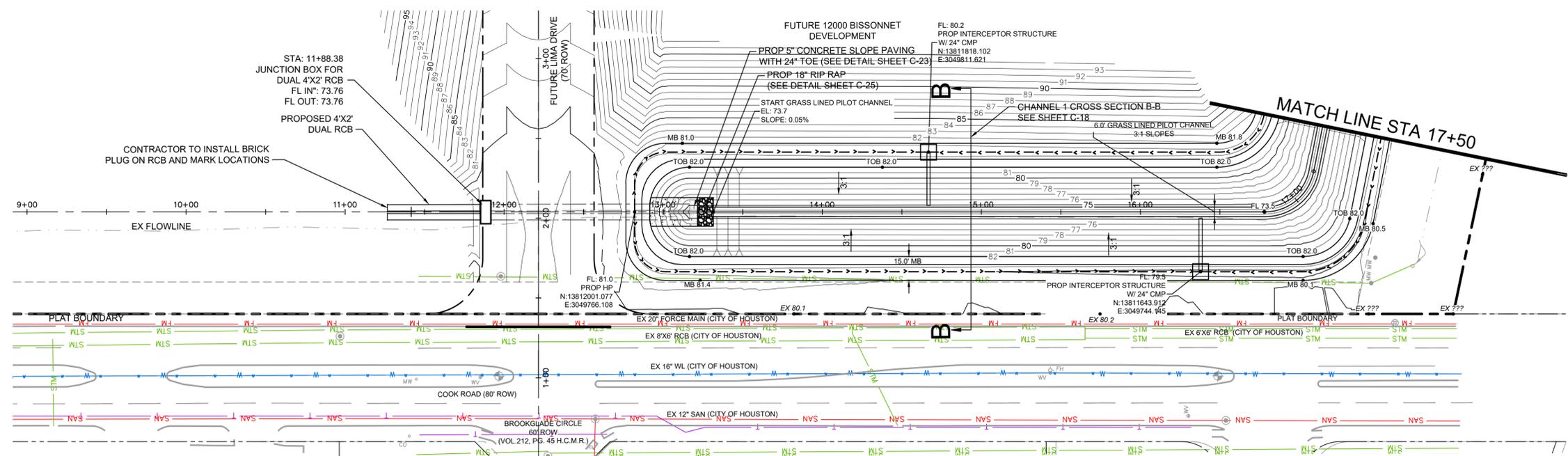
**KIRKWOOD CROSSING**  
 HOUSTON, TX 77048

**BASIN CROSS SECTION**

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE
FILE NO.	HORIZ: VERT:
SHEET NO. C-10 OF C-28	DRAWING SCALE
FOR CITY OF HOUSTON USE ONLY	



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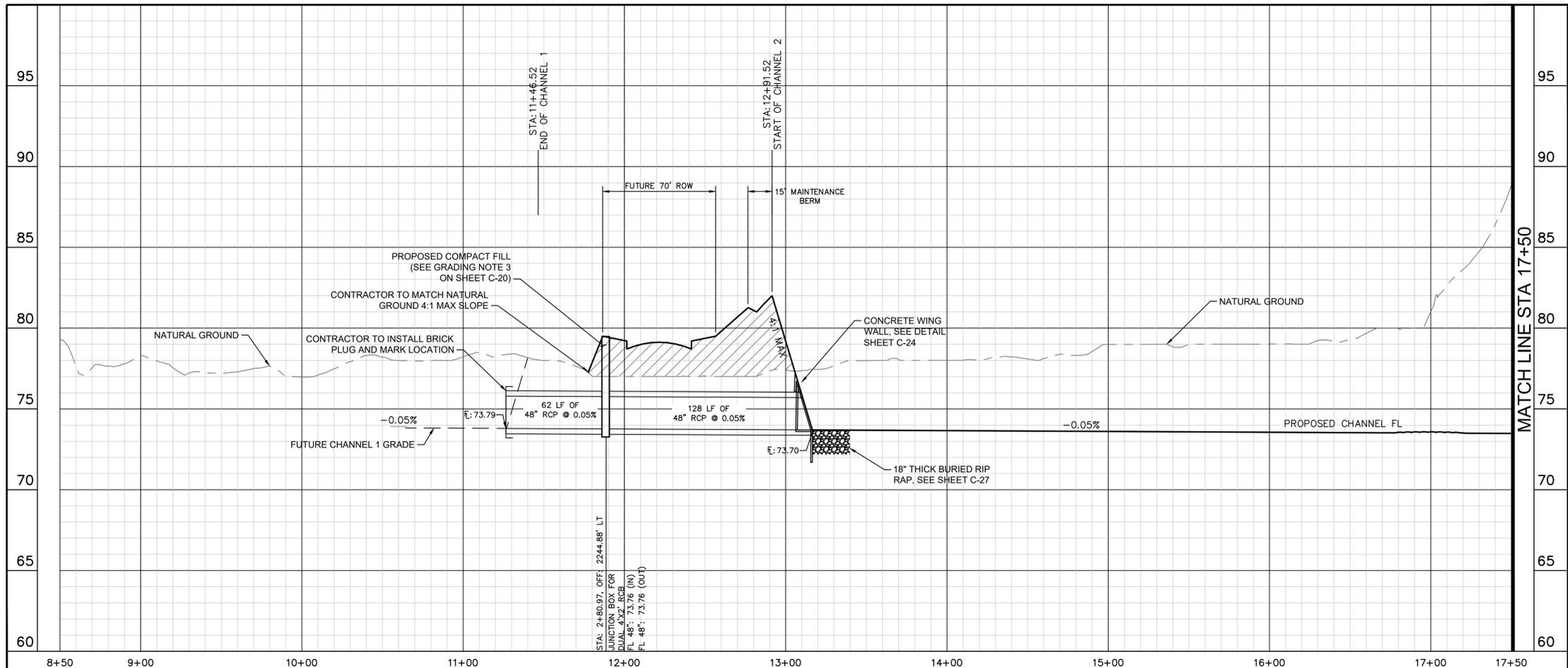
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CHANNEL 2 (STA 8+50 TO 17+50)



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11700 Katy Freeway, Suite 800 Houston, Texas 77079  
TBP Firm Registration F-928  
Tel. No. (281) 597-9300

FOR REVIEW ONLY  
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**Kimley»Horn**  
Engineer: ROSE C. KAETZER  
P.E. No. 241983 Date: 26 DECEMBER 2022

**KIRKWOOD CROSSING**  
HOUSTON, TX 77048

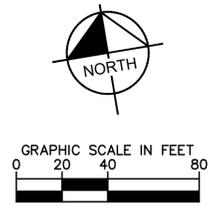
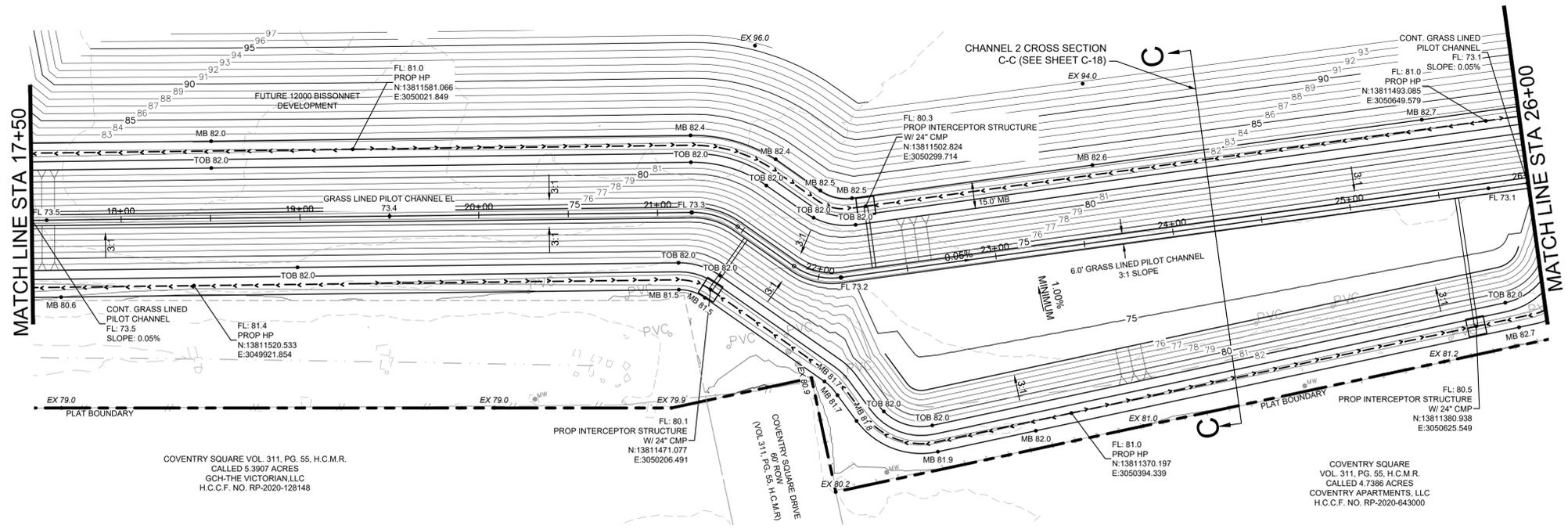
**DRAINAGE CHANNEL 2  
P&P (STA 8+50 TO 17+50)**

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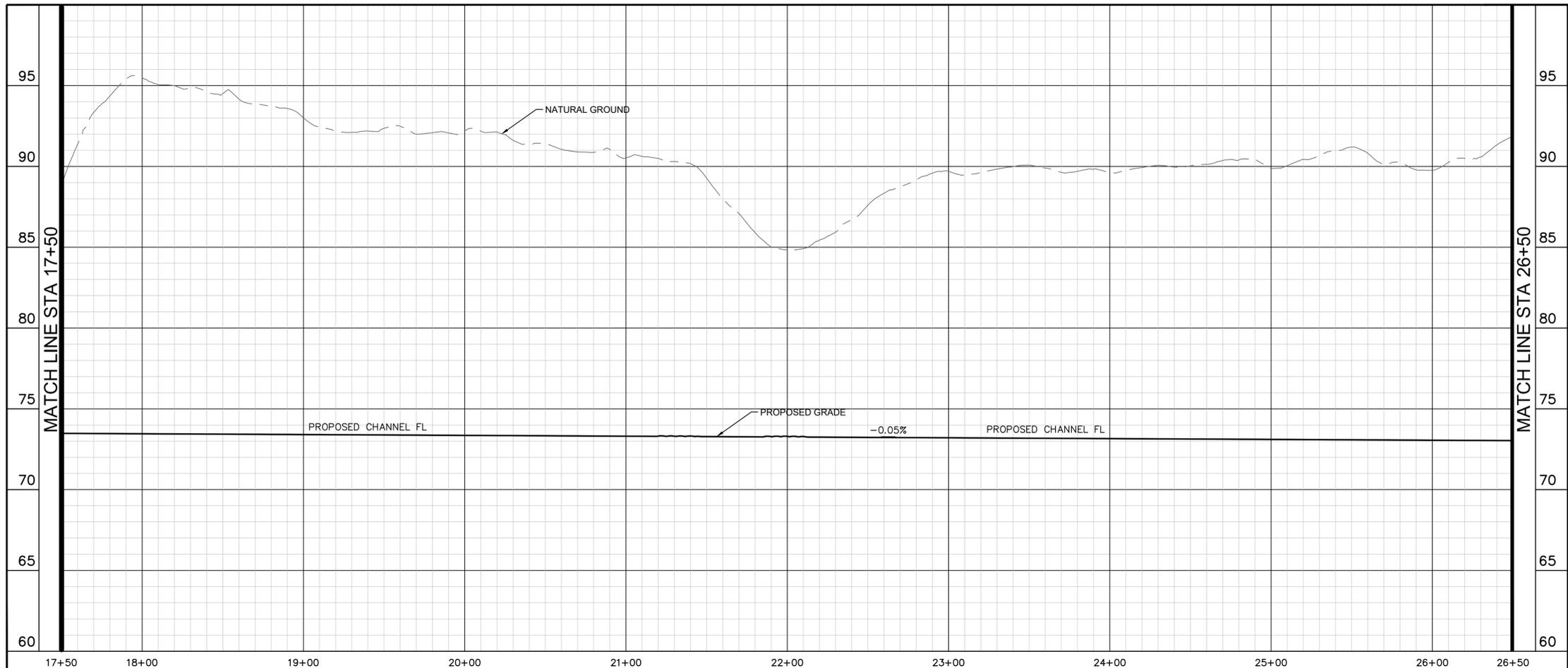
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WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE
FILE NO.	HORIZ:
	VERT:
SHEET NO. C-11 OF C-28	DRAWING SCALE
FOR CITY OF HOUSTON USE ONLY	

NO.	DATE	REVISION	APP.



CHANNEL 2 (STA 17+50 TO 26+50)



PROFILE SCALE  
 1" = 40' HORIZONTAL  
 1" = 4' VERTICAL

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**Kimley»Horn**  
 Engineer, ROSE C. KAETZER  
 P.E. No. 241983 Date 25/02/2022

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 HOUSTON, TX 77048

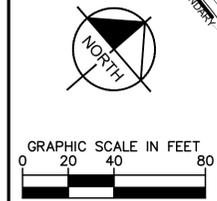
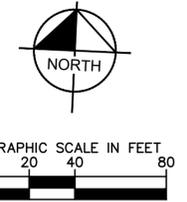
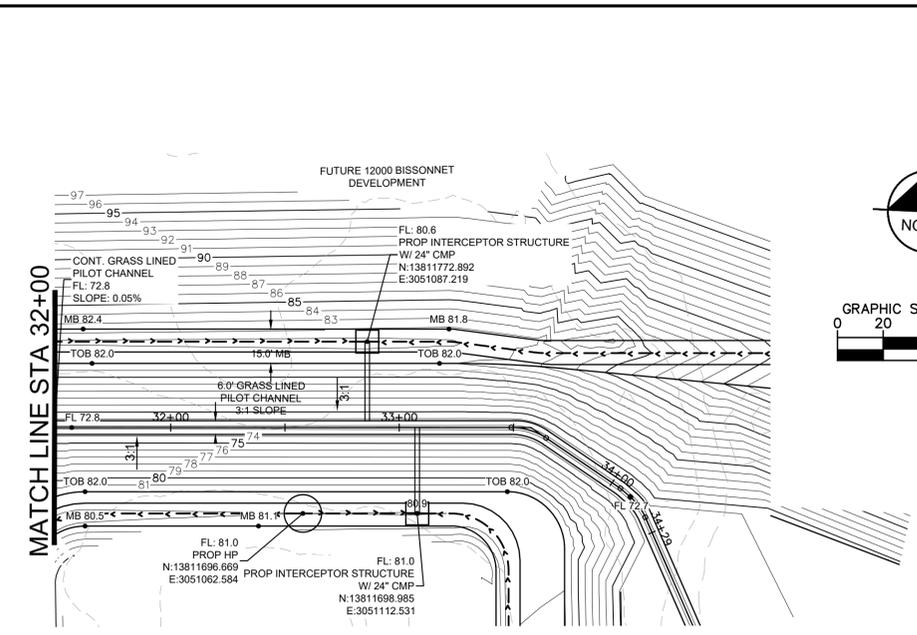
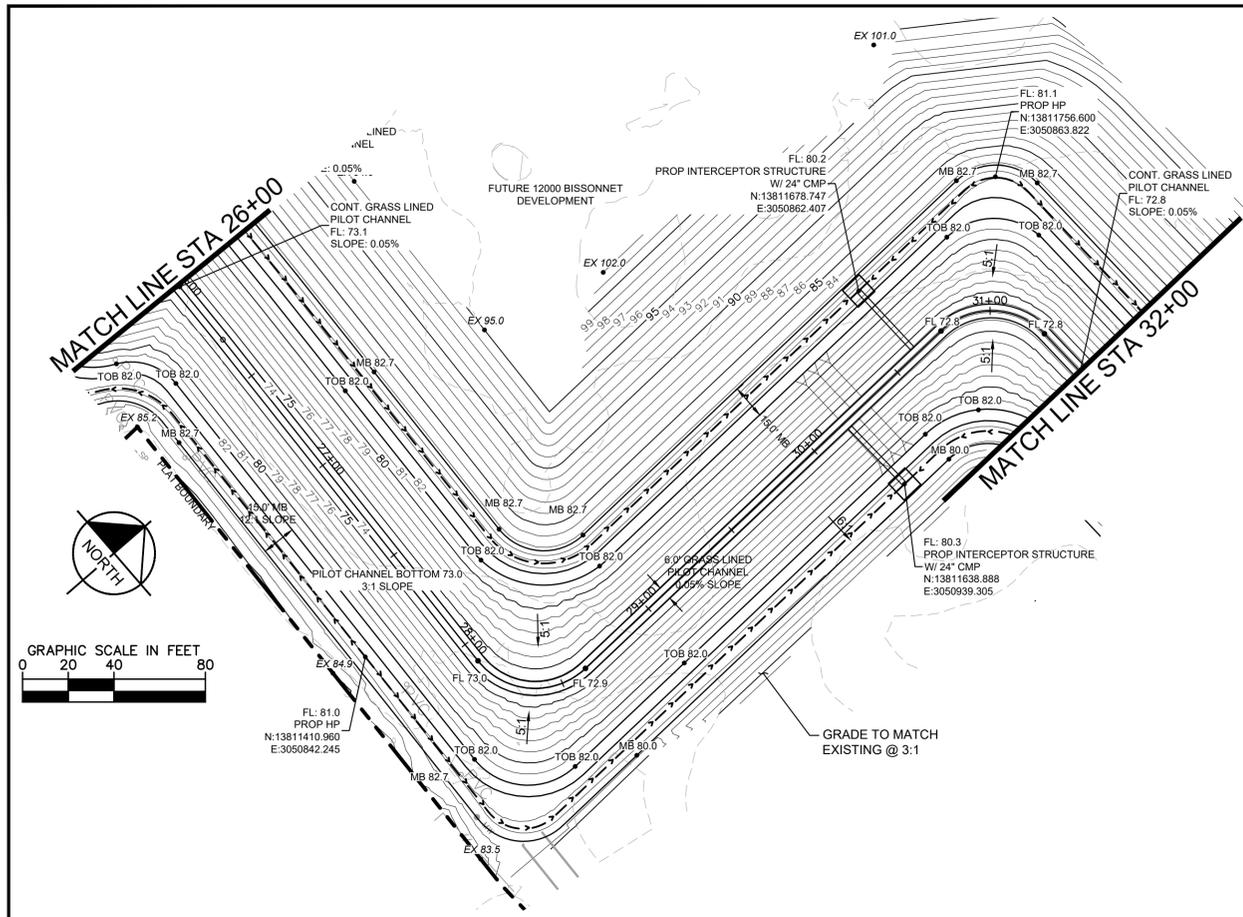
**DRAINAGE CHANNEL 2**  
**P&P (STA 17+50 TO 26+50)**

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

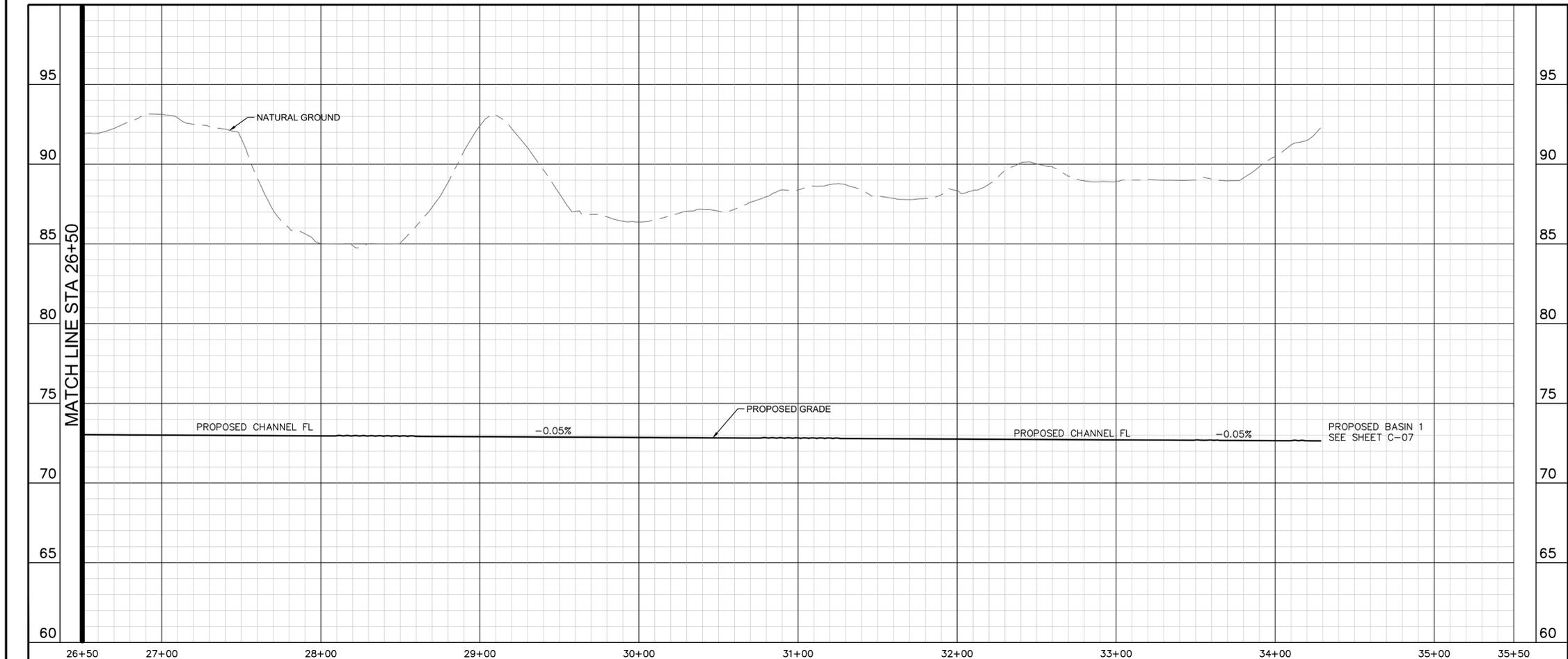
**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

WATER _____	STORM WATER QUALITY _____
WASTE WATER _____	FACILITIES _____
STORM WATER _____	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE _____
FILE NO. _____	HORIZ: _____ VERT: _____
SHEET NO. C-12 OF C-28	DRAWING SCALE _____
FOR CITY OF HOUSTON USE ONLY	

NO.	DATE	REVISION	APP.



CHANNEL 2 (STA 26+50 TO END)



PROFILE SCALE  
 1" = 40' HORIZONTAL  
 1" = 4' VERTICAL

**NOTICE:**  
 FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

**VERIFICATION OF PRIVATE UTILITY LINES**

Date \_\_\_\_\_  
 CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for conflict verification.  
 Signature valid for six months.

Date \_\_\_\_\_  
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Date \_\_\_\_\_  
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 Signature valid for one year.

**Kimley»Horn**

11700 Katy Freeway,  
 Suite 800 Houston, Texas 77079  
 TBPE Firm Registration F-928  
 Tel. No. (281) 597-9300

FOR REVIEW ONLY  
 Not for construction or permit purposes.  
**Kimley»Horn**  
 Engineer, ROSE C. KAETZER  
 P.E. No. 241983 Date 26/03/2022

**KIRKWOOD CROSSING**  
 HOUSTON, TX 77048

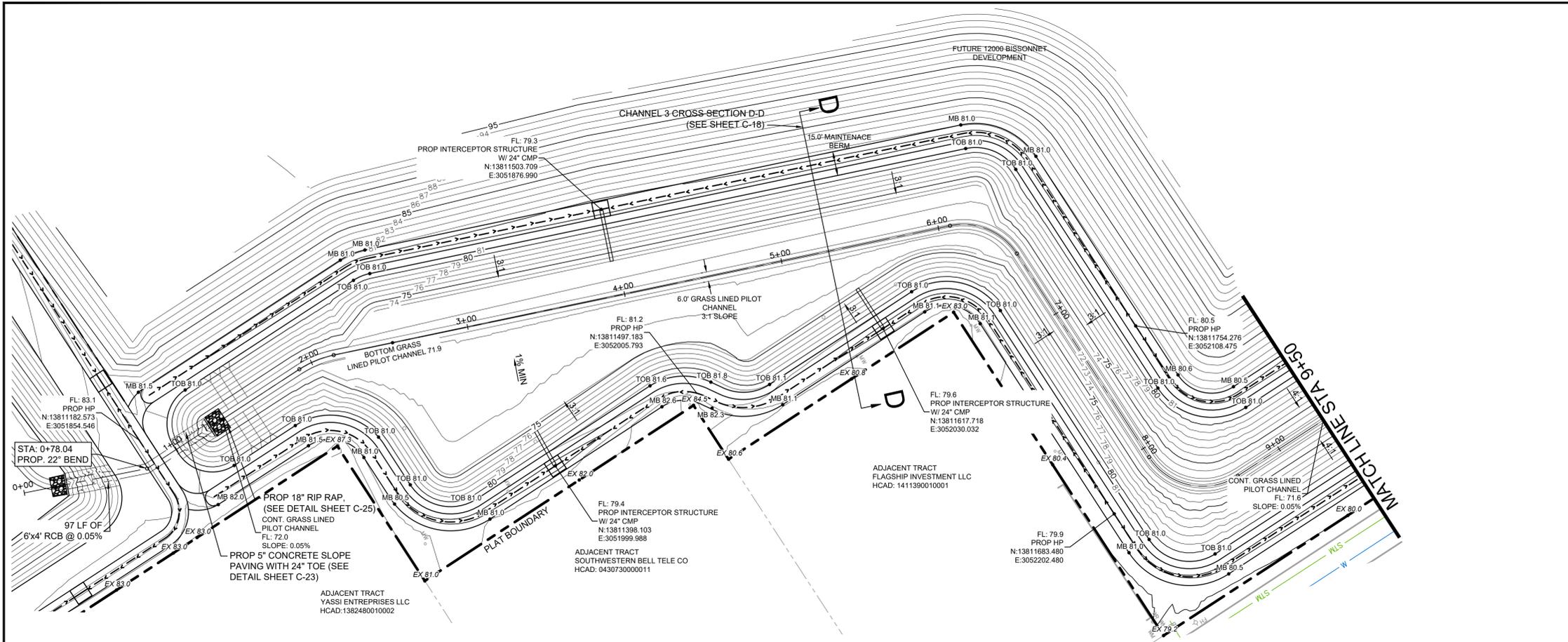
**DRAINAGE CHANNEL 2**  
**P&P (STA 26+50 TO END)**

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

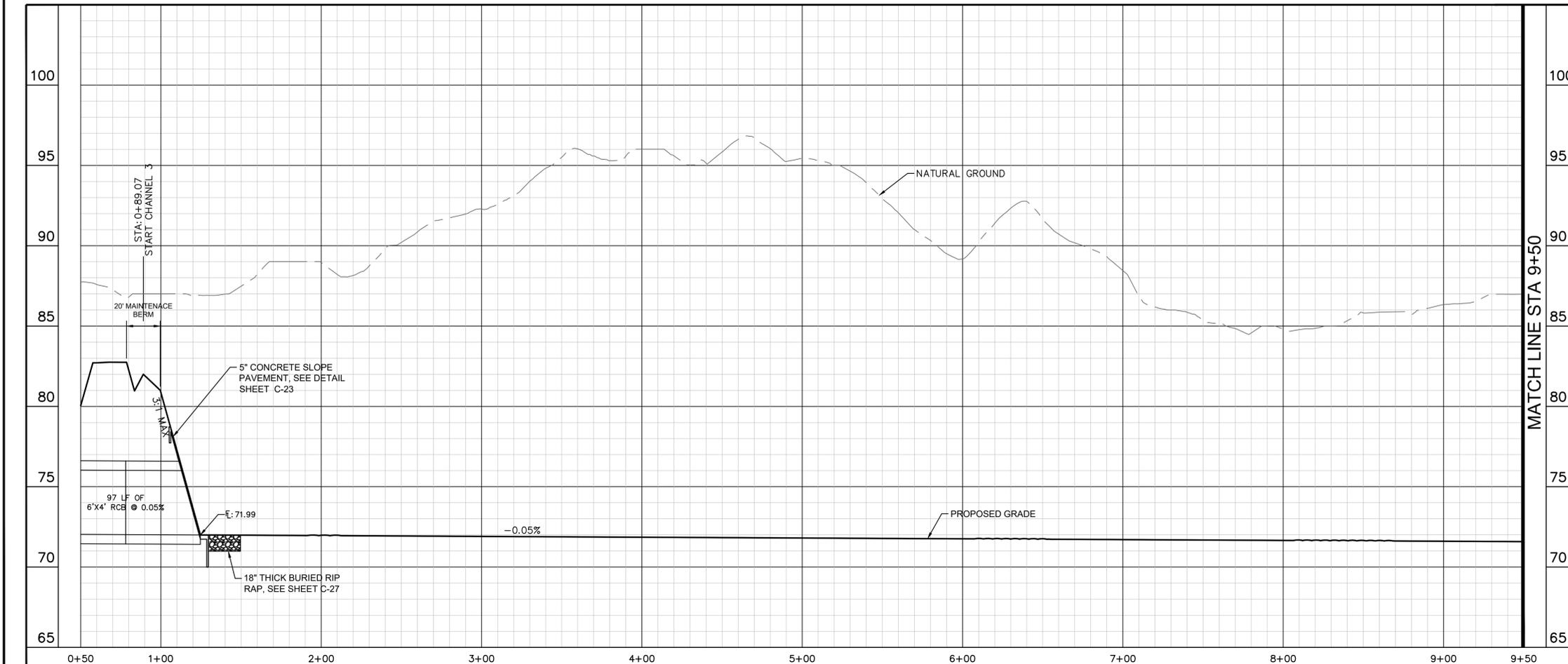
**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

WATER _____	STORM WATER QUALITY _____
WASTE WATER _____	FACILITIES _____
STORM WATER _____	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE _____
FILE NO. _____	HORIZ: _____
	VERT: _____
SHEET NO. C-13 OF C-28	DRAWING SCALE _____
FOR CITY OF HOUSTON USE ONLY	

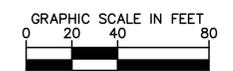
NO.	DATE	REVISION	APP.



CHANNEL 3 (STA 0+50 TO 9+50)



PROFILE SCALE  
 1" = 40' HORIZONTAL  
 1" = 4' VERTICAL



NO.	DATE	REVISION	APP.

**NOTICE:**  
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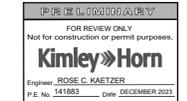
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**Kimley»Horn**



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 TBPE Firm Registration F-928  
 Tel. No. (281) 597-9300

**KIRKWOOD CROSSING**  
 HOUSTON, TX 77048

**DRAINAGE CHANNEL 3  
 P&P (START TO 9+50)**

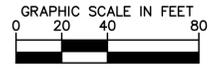
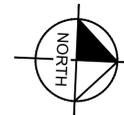
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

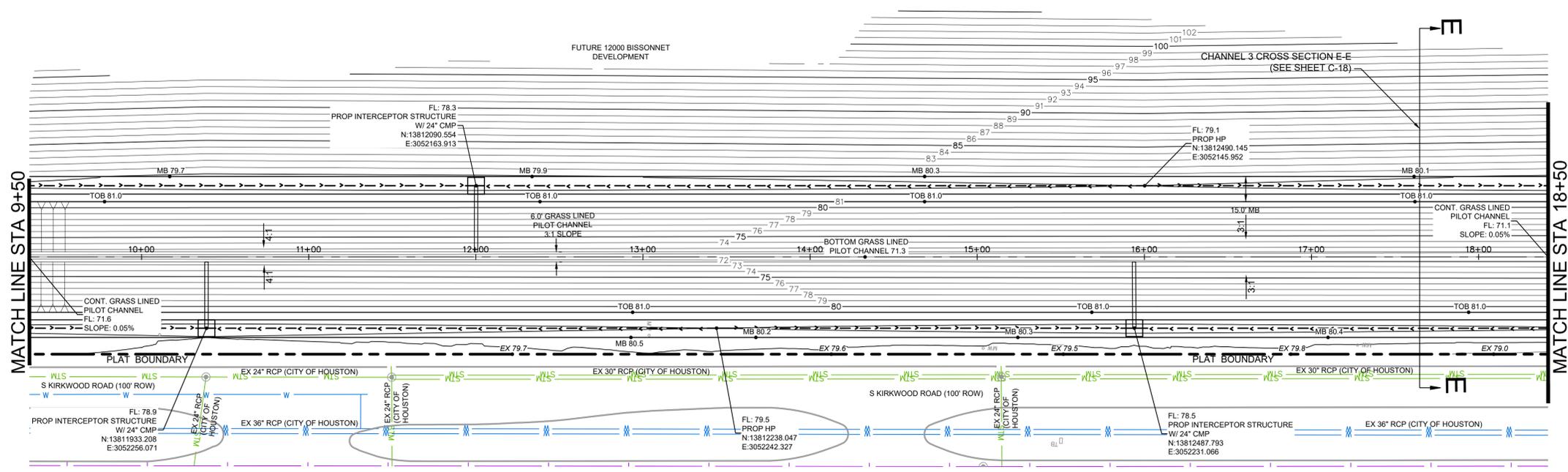
WATER _____	STORM WATER QUALITY _____
WASTE WATER _____	FACILITIES _____
STORM WATER _____	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE _____

FILE NO. _____	HORIZ: _____
	VERT: _____

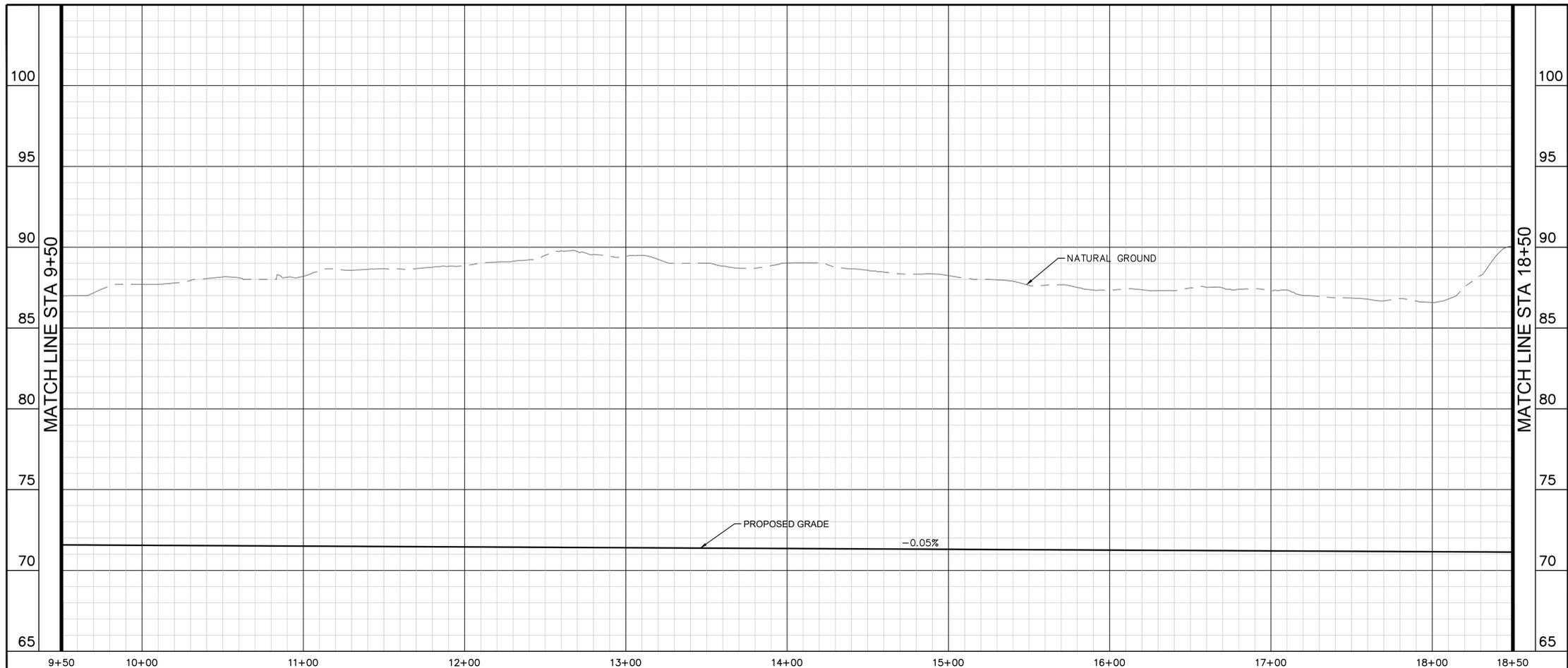
SHEET NO. C-14 OF C-28 **DRAWING SCALE**  
 FOR CITY OF HOUSTON USE ONLY



NO.	DATE	REVISION	APP.



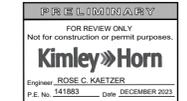
CHANNEL 3 (STA 9+50 TO 18+50)



PROFILE SCALE  
 1" = 40' HORIZONTAL  
 1" = 4' VERTICAL

<b>NOTICE:</b>	
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**Kimley»Horn**



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 Tel. No. (281) 597-9300

**KIRKWOOD CROSSING**  
 HOUSTON, TX 77048

**DRAINAGE CHANNEL 3  
 P&P (STA 9+50 TO 18+50)**

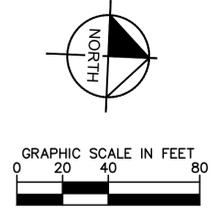
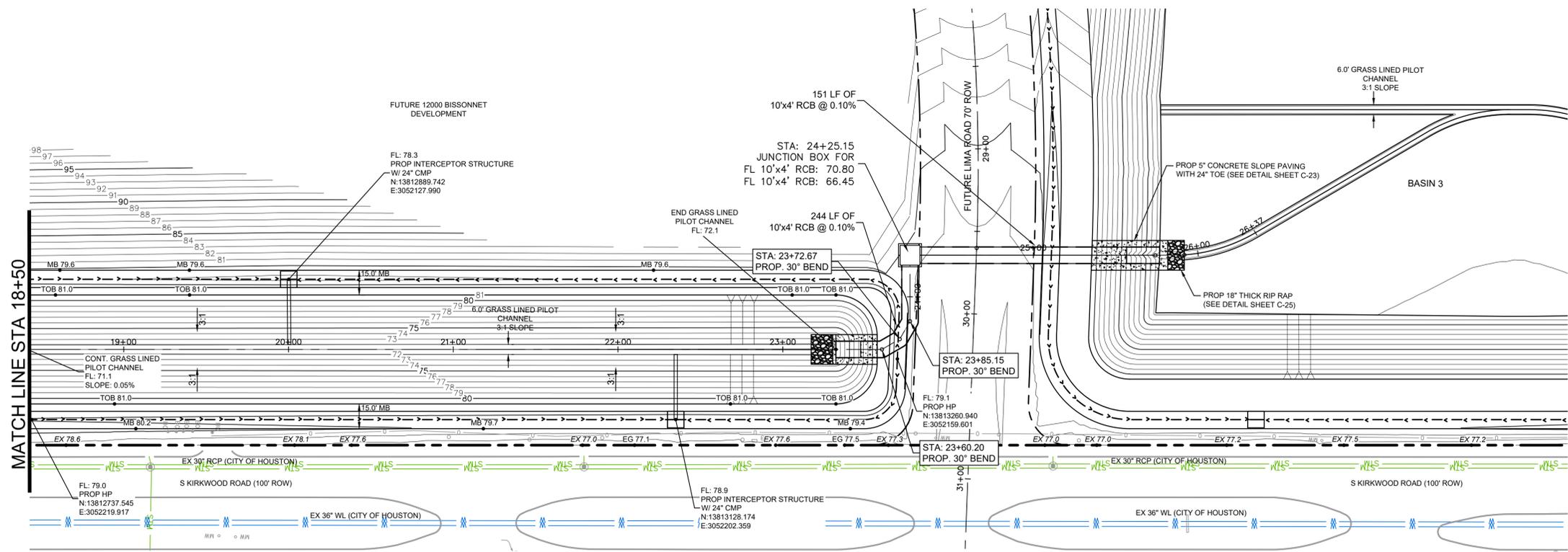
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE

FILE NO.	HORIZ:
	VERT:

SHEET NO. C-15 OF C-28      DRAWING SCALE  
 FOR CITY OF HOUSTON USE ONLY



NO.	DATE	REVISION	APP.

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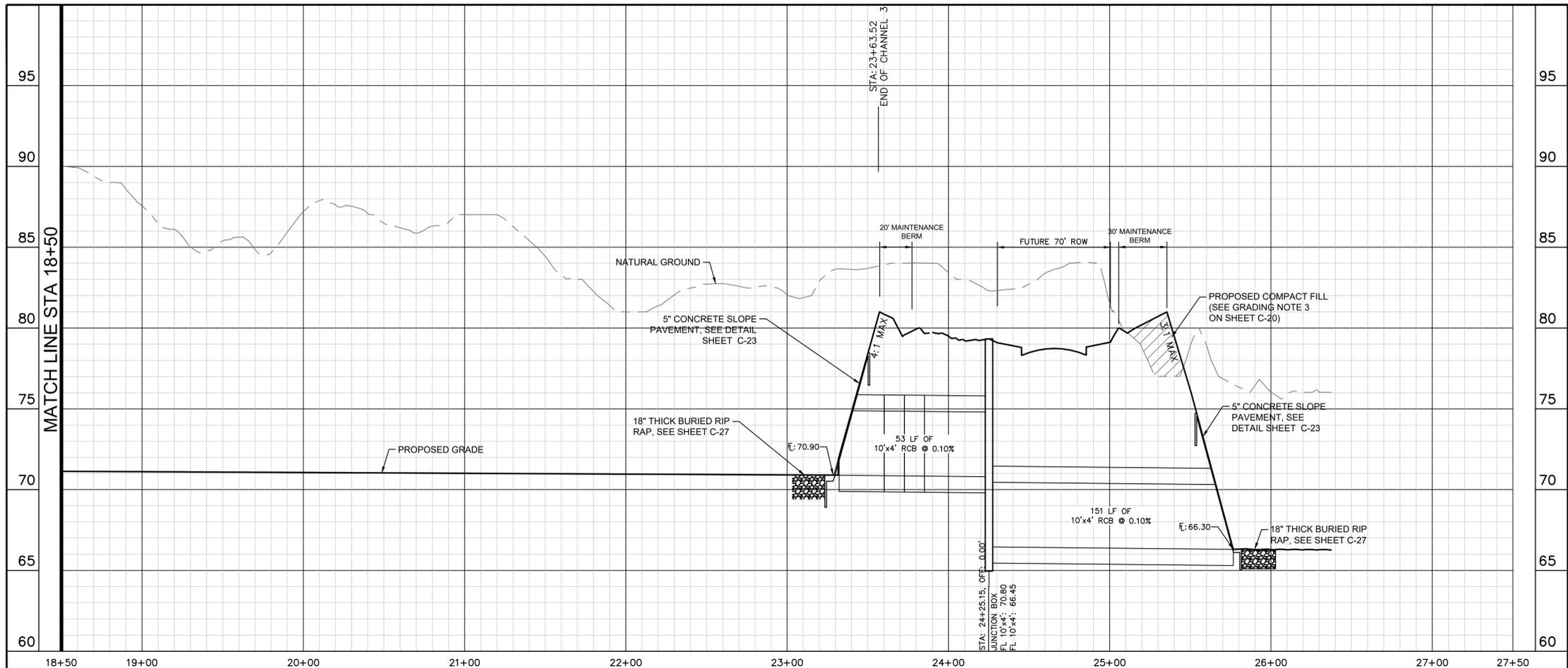
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Date \_\_\_\_\_  
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CHANNEL 3 (STA 18+50 TO END)



PROFILE SCALE  
 1" = 40' HORIZONTAL  
 1" = 4' VERTICAL

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FOR REVIEW ONLY  
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**Kimley»Horn**  
 Engineer: ROSE C. KAETZER  
 P.E. No. 241883 Date: 25/03/2025

**KIRKWOOD CROSSING**  
 HOUSTON, TX 77048

**DRAINAGE CHANNEL 3  
 P&P (STA 18+50 TO END)**

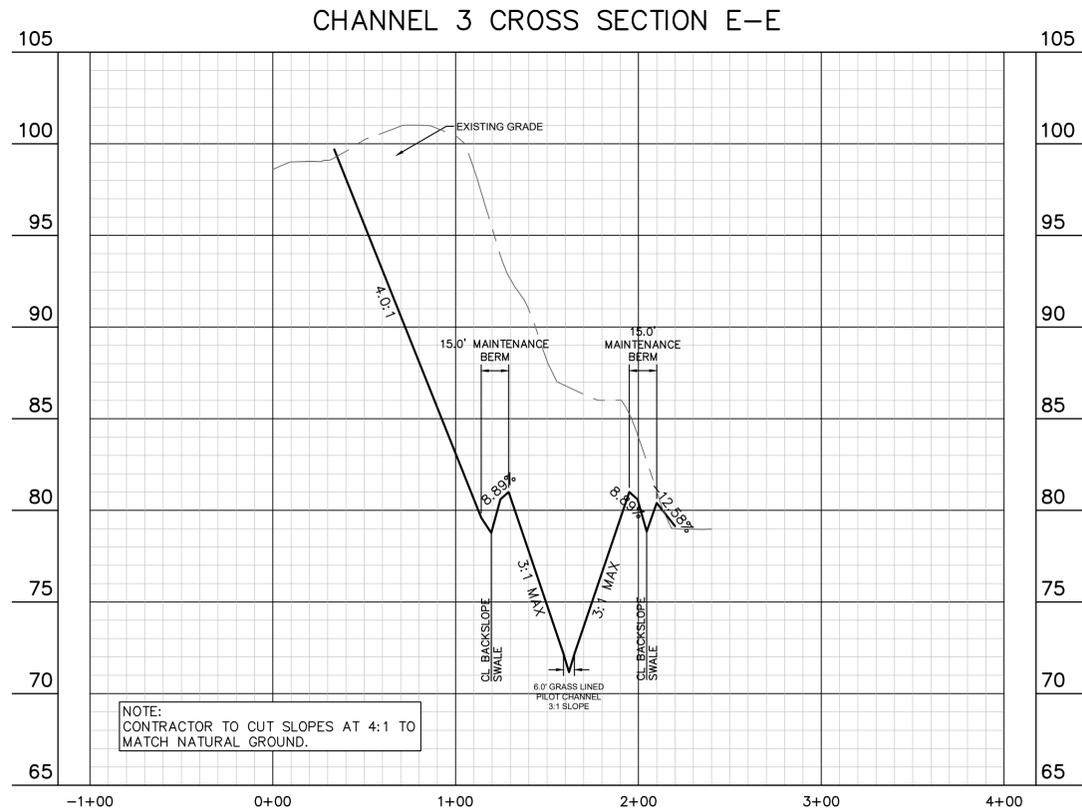
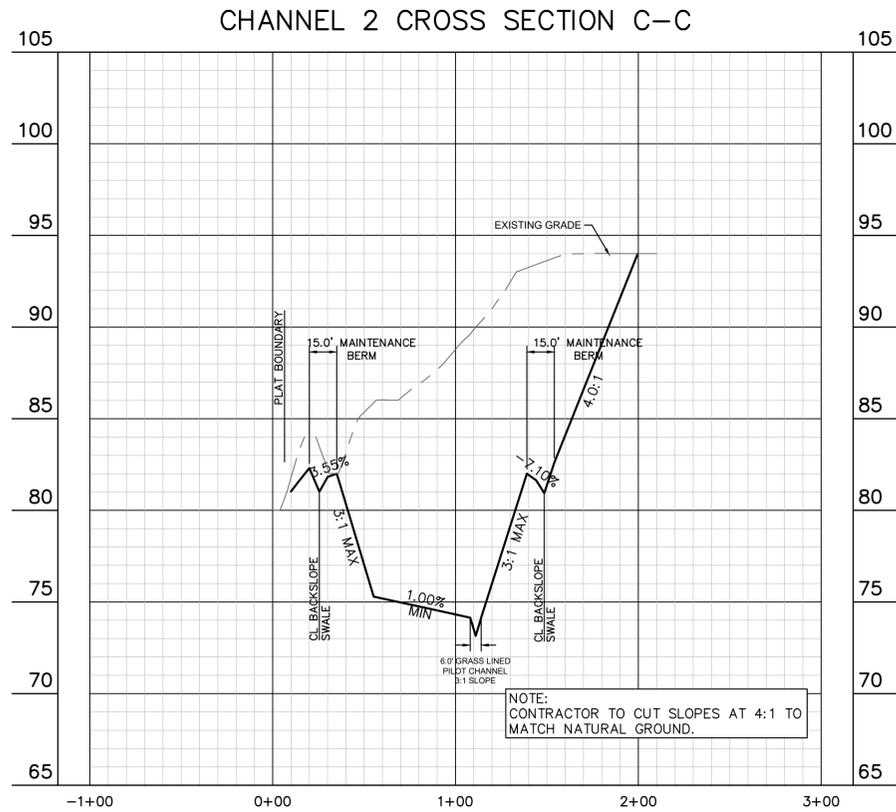
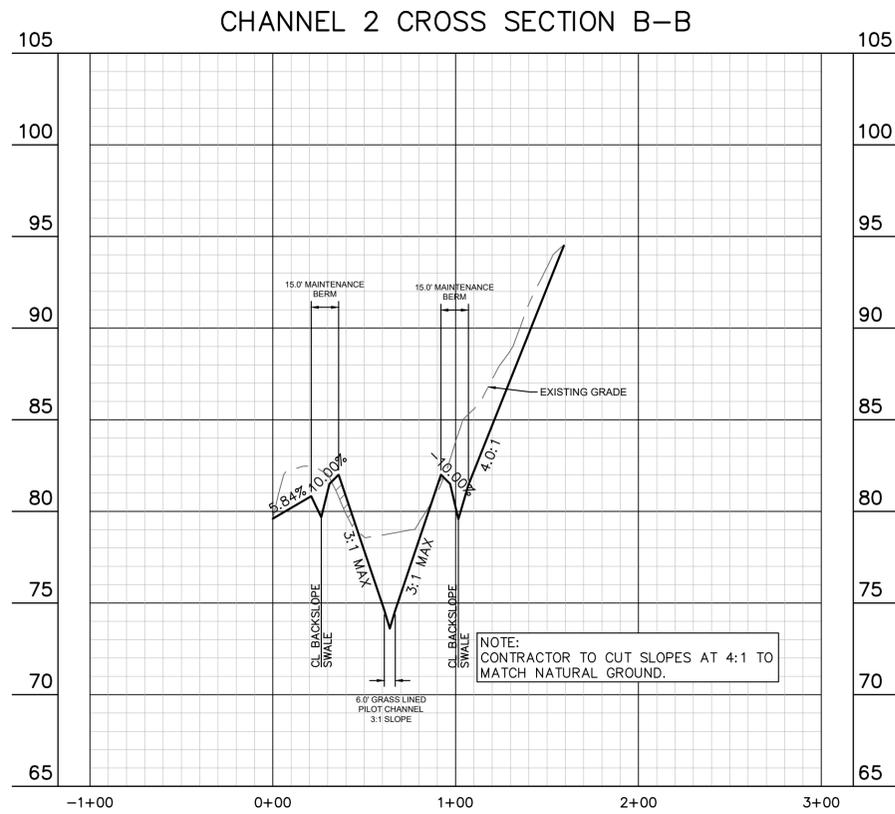
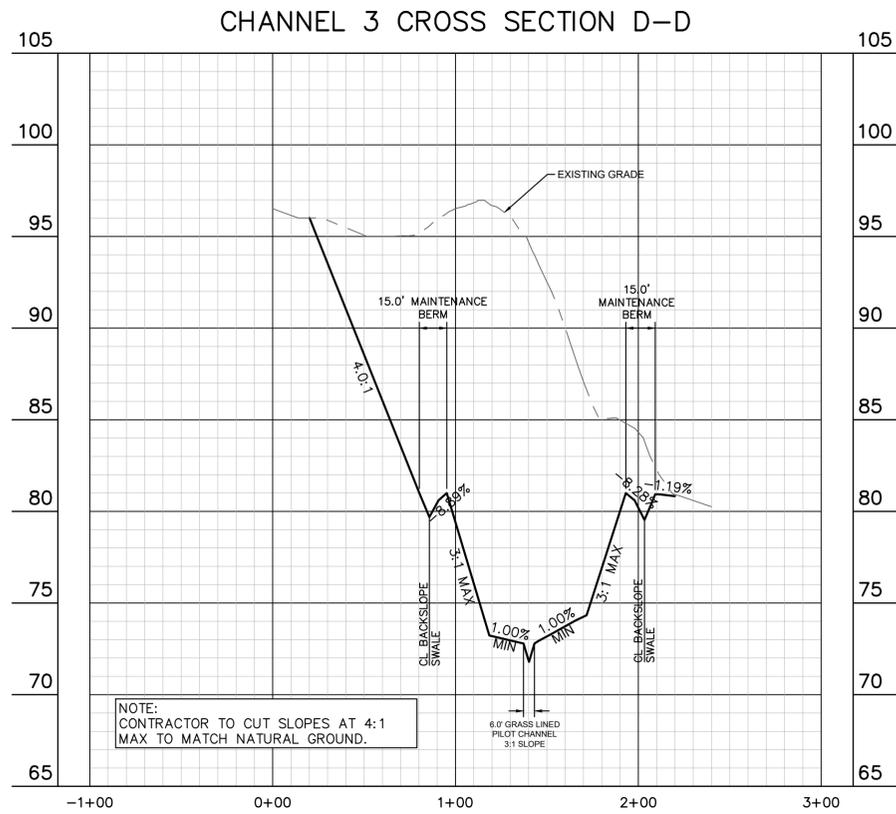
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE

FILE NO. \_\_\_\_\_ HORIZ: \_\_\_\_\_  
 VERT: \_\_\_\_\_

SHEET NO. C-16 OF C-28 DRAWING SCALE  
 FOR CITY OF HOUSTON USE ONLY



NO.	DATE	REVISION	APP.

**NOTICE:**  
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TBPE Firm Registration F-928

Tel. No. (281) 597-9300

PRINTED ON RECYCLED PAPER

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Not for construction or permit purposes.

**Kimley»Horn**

Engineer, ROSE C. KAETZER  
P.E. No. 441983    Exp. 28/01/2025

### KIRKWOOD CROSSING

HOUSTON, TX 77048

## CHANNEL CROSS SECTIONS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

## CITY OF HOUSTON

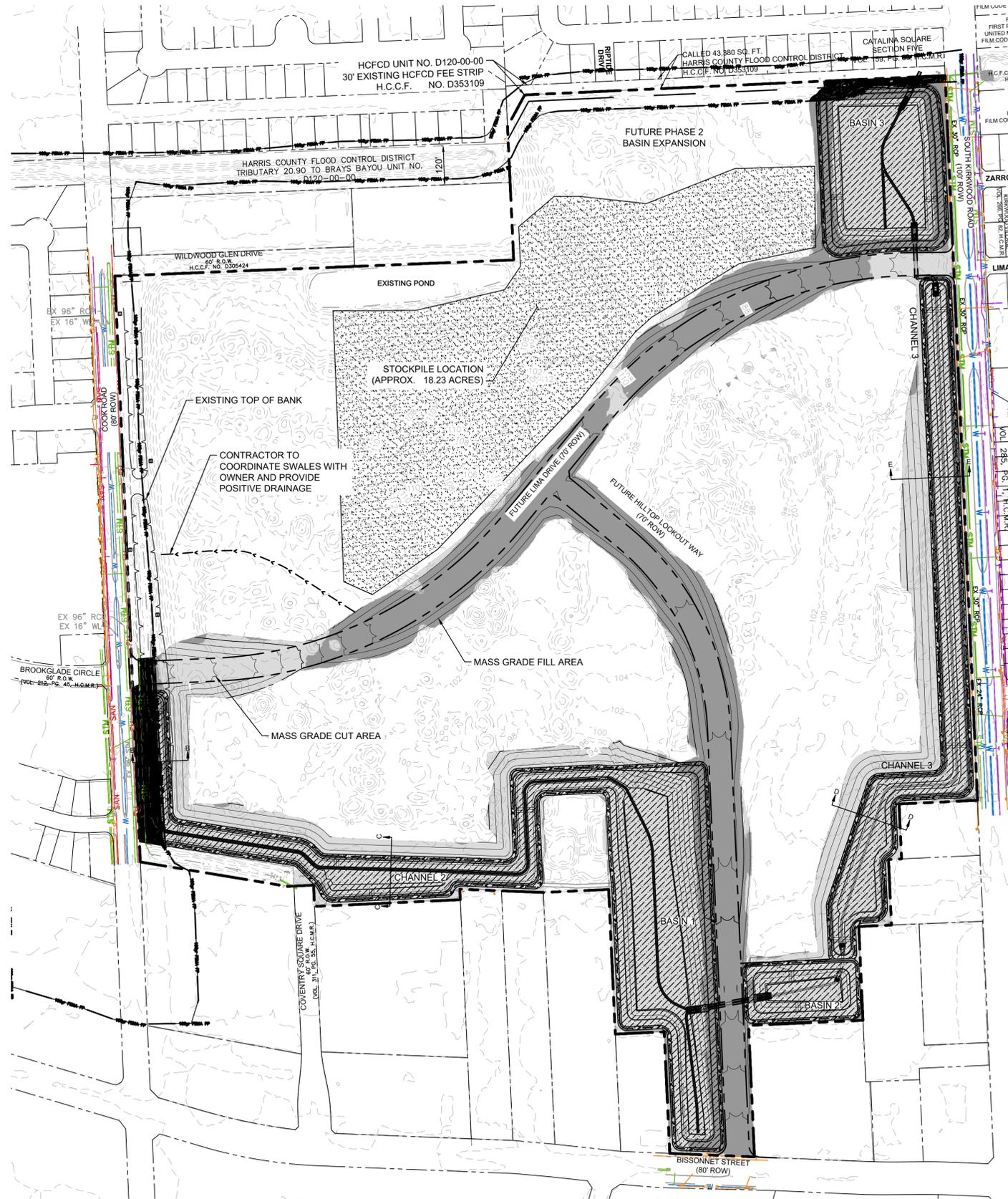
HOUSTON PUBLIC WORKS

WATER _____	STORM WATER QUALITY _____
WASTE WATER _____	FACILITIES _____
STORM WATER _____	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE _____

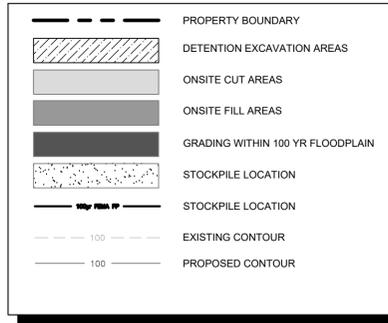
FILE NO. _____	HORIZ: _____
	VERT: _____

SHEET NO. C-18 OF C-28	DRAWING SCALE _____
------------------------	---------------------

FOR CITY OF HOUSTON USE ONLY



**LEGEND**



**NOTES**

- CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY TCEQ, HARRIS COUNTY, CITY OF HOUSTON, AND HCFCD PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN THE DEVELOPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SITE DRAINAGE AND CONTROLLING RUNOFF FOR THE DURATION OF THE CONSTRUCTION CONTRACT. THIS SHALL INCLUDE CONSTRUCTION OF TEMPORARY SWALES OR PROVIDING PORTABLE PUMPS, IF REQUIRED, SO THAT CONSTRUCTION PROGRESS MAY CONTINUE.
- CONTRACTOR TO PLACE FILL MATERIAL IN 8" LOOSE LIFTS AND COMPACT TO 95% STANDARD PROCTOR DENSITY. ALL AREAS TO RECEIVE FILL SHALL BE PROOF-ROLLED TO DETECT ANY SOFT OR POORLY COMPACTED AREAS PRIOR TO RECEIVING FILL. PROOF-ROLLING
- THE CONTRACTOR SHALL GRADE FROM GIVEN ELEVATIONS AT 4:1 MAX BACK TO NATURAL GROUND FROM CUT OR FILL SITES, UNLESS OTHERWISE NOTED.
- PROPOSED CONTOURS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO USE SPOT ELEVATIONS FOR GRADING CONSTRUCTION.
- CONTRACTOR TO PLACE FILL IN STOCKPILE AREA NO HIGHER THAN 4 FT ABOVE NATURAL GROUND.

**CUT/FILL SUMMARY**

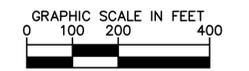
<b>CUT:</b>	
BASIN 1:	200,333 CY
BASIN 2:	12,862 CY
INLINE BASIN:	103,406 CY
BASIN 3 PH 1:	37,421 CY
CHANNEL 1:	18,292 CY
PAVEMENT:	8,899 CY
<b>TOTAL:</b>	<b>381,123 CY</b>
<b>FILL:</b>	
BASIN 1:	9,940 CY
BASIN 2:	100 CY
INLINE BASIN:	100 CY
BASIN 3 PH 1:	9,400 CY
CHANNEL 1:	2,643 CY
PAVEMENT:	23,650 CY
<b>TOTAL:</b>	<b>45,833 CY</b>
<b>STOCKPILE:</b>	<b>UP TO 335,290 CY</b>

**FLOODPLAIN EARTHWORK CALCS**

- CUT WITHIN FLOODPLAIN: 1932 CY
- FILL WITHIN FLOODPLAIN: 1433 CY
- TOTAL EXISTING FLOODPLAIN STORAGE BELOW 500 YR BFE: .0464 AC-FT
- TOTAL PROPOSED FLOODPLAIN STORAGE BELOW 500 YR BFE: .0573 AC-FT

**500-BASE FLOOD ELEVATIONS**

BASE FLOOD ELEVATION = 78.50 - 81.0'  
FIRM PANEL # 48201C0840L



**NOTICE:**

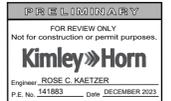
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Signature valid for six months.	_____
Date	_____
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Signature valid for six months.	_____
Date	_____
Approved for AT&T underground conduit facilities only. Signature valid for one year.	_____

**Kimley»Horn**

11700 Katy Freeway,  
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TBP Firm Registration F-928  
Tel. No. (281) 597-9300



**KIRKWOOD CROSSING**  
HOUSTON, TX 77048

**MASS GRADING OVERALL**

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE
FILE NO.	HORIZ: VERT:
SHEET NO. C-20 OF C-28	DRAWING SCALE
FOR CITY OF HOUSTON USE ONLY	

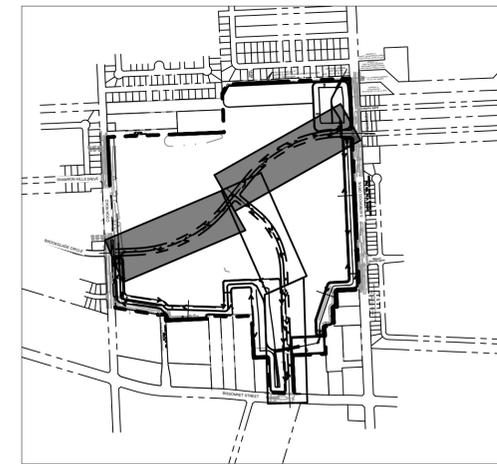
NO.	DATE	REVISION	APP.

**LEGEND**

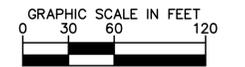
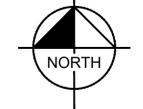
	PROPERTY BOUNDARY
	PROPOSED TEMPORARY SWALE
	PROPOSED FINISH ELEVATION
	100-YR FLOW PATH
	EXISTING CONTOUR
	PROPOSED CONTOUR

**NOTES**

1. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, CITY OF HOUSTON, AND HCPCD PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN THE DEVELOPMENT.
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3. CONTRACTOR TO PLACE FILL MATERIAL IN 8" LOOSE LIFTS AND COMPACT TO 95% STANDARD PROCTOR DENSITY.
4. ALL AREAS TO RECEIVE FILL SHALL BE PROOF-ROLLED TO DETECT ANY SOFT OR POORLY COMPACTED AREAS PRIOR TO RECEIVING FILL. PROOF-ROLLING
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6. PROPOSED CONTOURS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO USE SPOT ELEVATIONS FOR GRADING CONSTRUCTION.
7. CONTRACTOR TO PLACE FILL IN STOCKPILE AREA NO HIGHER THAN 4 FT ABOVE NATURAL GROUND.
8. REFERENCE NOTES ON SHEET 27.



KEYMAP



**NOTICE:**

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TBPE Firm Registration F-928

Tel. No. (281) 597-9300

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**Kimley»Horn**  
Engineer, ROSE C. KAETZER  
P.E. No. 241883 exp. 28/01/2025

**KIRKWOOD CROSSING**

HOUSTON, TX 77048

**MASS GRADING LAYOUT  
(SHEET 1 OF 2)**

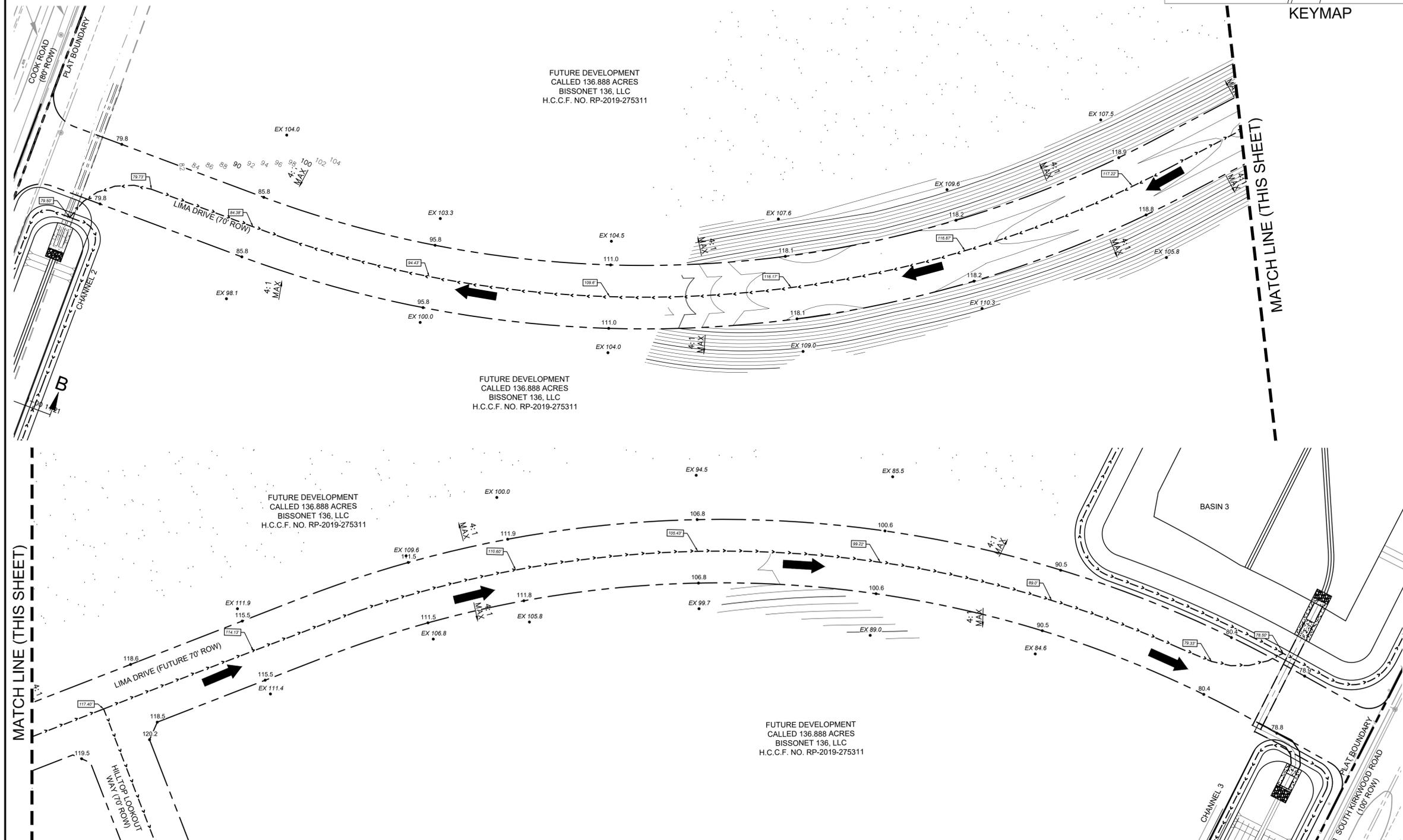
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE

FILE NO. \_\_\_\_\_ HORIZ: \_\_\_\_\_  
VERT: \_\_\_\_\_

SHEET NO. C-20.10F C-28 DRAWING SCALE  
FOR CITY OF HOUSTON USE ONLY



FUTURE DEVELOPMENT  
CALLED 136.888 ACRES  
BISSONET 136, LLC  
H.C.C.F. NO. RP-2019-275311

FUTURE DEVELOPMENT  
CALLED 136.888 ACRES  
BISSONET 136, LLC  
H.C.C.F. NO. RP-2019-275311

FUTURE DEVELOPMENT  
CALLED 136.888 ACRES  
BISSONET 136, LLC  
H.C.C.F. NO. RP-2019-275311

FUTURE DEVELOPMENT  
CALLED 136.888 ACRES  
BISSONET 136, LLC  
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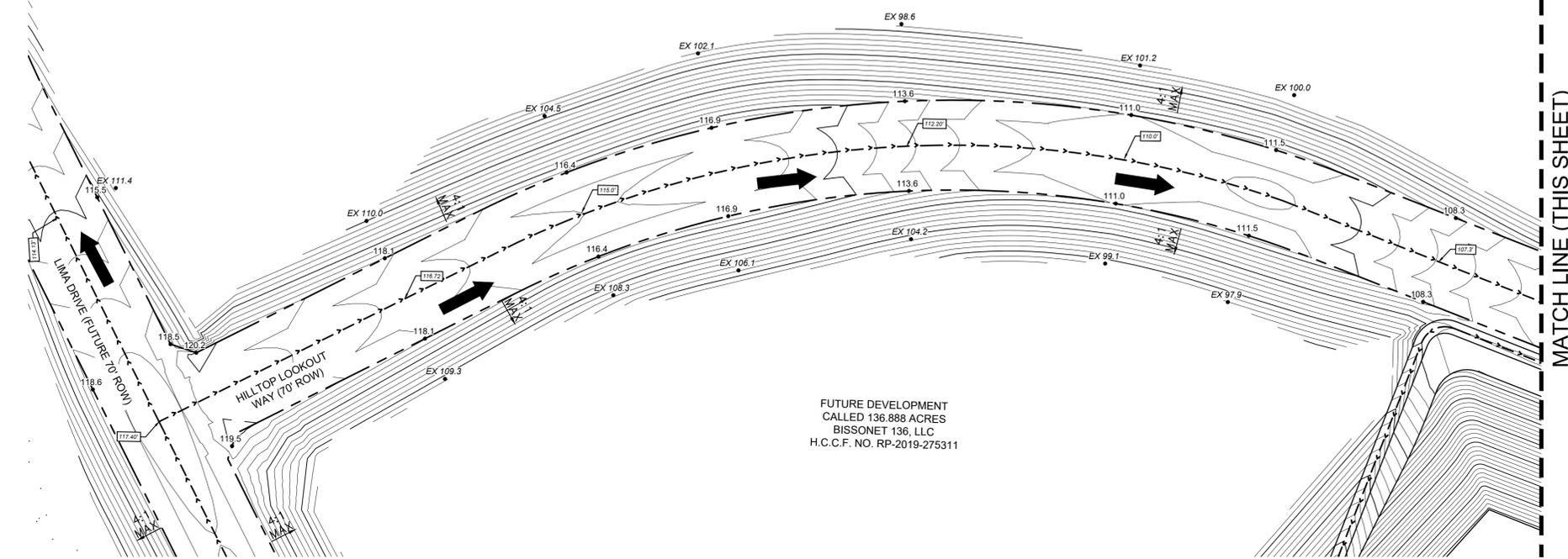
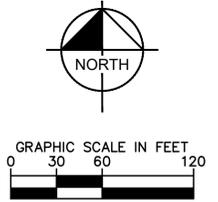
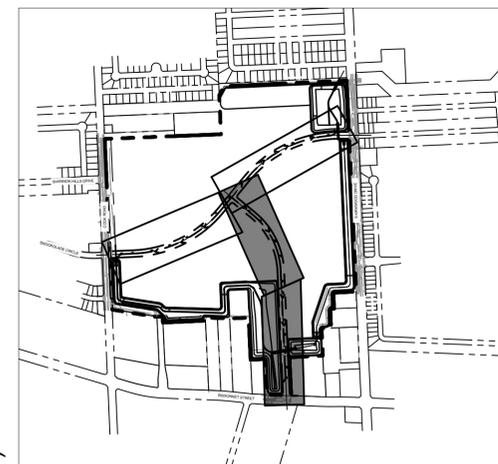
MATCH LINE (THIS SHEET)

MATCH LINE (THIS SHEET)

NO.	DATE	REVISION	APP.

**LEGEND**

- PROPERTY BOUNDARY
- - - PROPOSED TEMPORARY SWALE
- PROPOSED FINISH ELEVATION
- 100-YR FLOW PATH
- 555 EXISTING CONTOUR
- 555 PROPOSED CONTOUR



- NOTES**
- CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, CITY OF HOUSTON, AND HCFCD PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN THE DEVELOPMENT.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SITE DRAINAGE AND CONTROLLING RUNOFF FOR THE DURATION OF THE CONSTRUCTION CONTRACT. THIS SHALL INCLUDE CONSTRUCTION OF TEMPORARY SWALES OR PROVIDING PORTABLE PUMPS, IF REQUIRED, SO THAT CONSTRUCTION PROGRESS MAY CONTINUE.
  - CONTRACTOR TO PLACE FILL MATERIAL IN 8" LOOSE LIFTS AND COMPACT TO 95% STANDARD PROCTOR DENSITY.
  - ALL AREAS TO RECEIVE FILL SHALL BE PROOF-ROLLED TO DETECT ANY SOFT OR POORLY COMPACTED AREAS PRIOR TO RECEIVING FILL. PROOF-ROLLING.
  - THE CONTRACTOR SHALL GRADE FROM GIVEN ELEVATIONS AT 4:1 MAX BACK TO NATURAL GROUND FROM CUT OR FILL SITES, UNLESS OTHERWISE NOTED.
  - PROPOSED CONTOURS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO USE SPOT ELEVATIONS FOR GRADING CONSTRUCTION.
  - CONTRACTOR TO PLACE FILL IN STOCKPILE AREA NO HIGHER THAN 4 FT ABOVE NATURAL GROUND.
  - REFERENCE NOTES ON SHEET 27".

**NOTICE:**  
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

**VERIFICATION OF PRIVATE UTILITY LINES**

Date	Signature valid for six months.
Date	Signature valid for six months.
Date	Signature valid for one year.

**Kimley»Horn**

11700 Katy Freeway,  
Suite 800 Houston, Texas 77079  
TBPE Firm Registration F-928  
Tel. No. (281) 597-9300

**Kimley»Horn**  
FOR REVIEW ONLY  
Not for construction or permit purposes.  
Engineer, ROSE C. KAETZER  
P.E. No. 141983 Exp. 08/31/2025

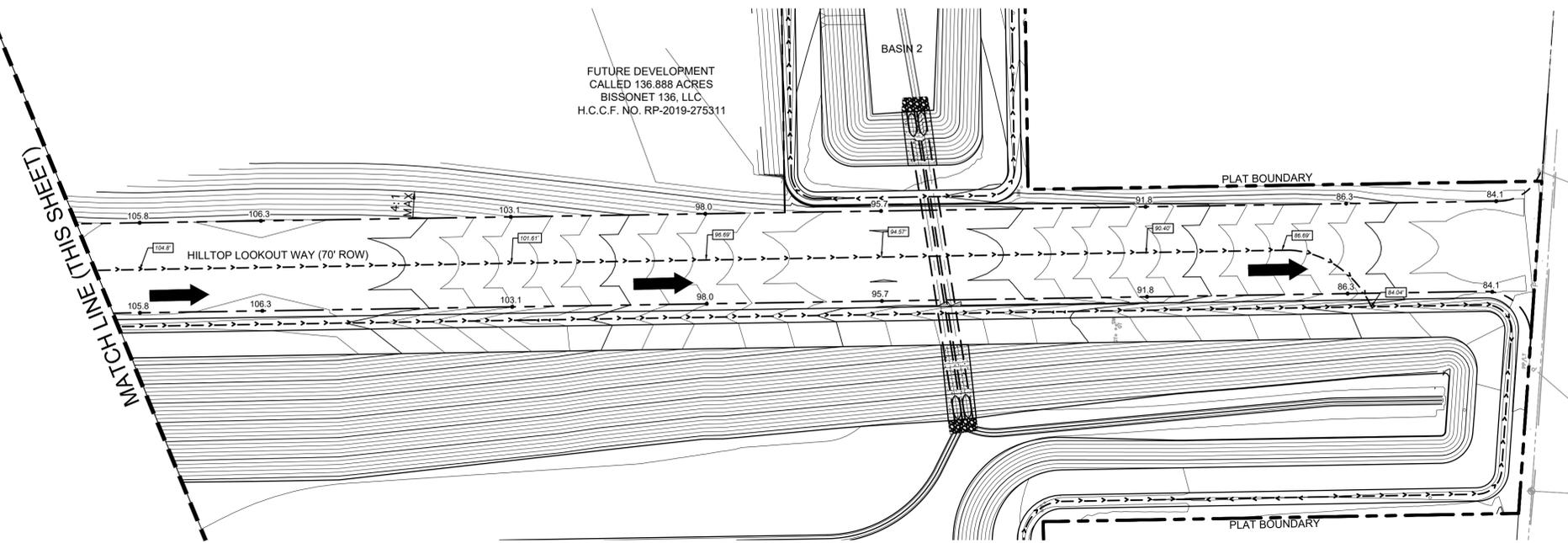
**KIRKWOOD CROSSING**  
HOUSTON, TX 77048

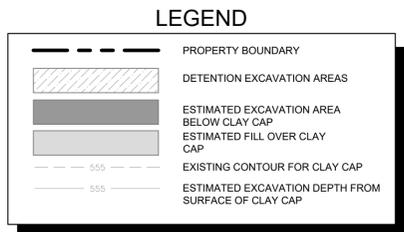
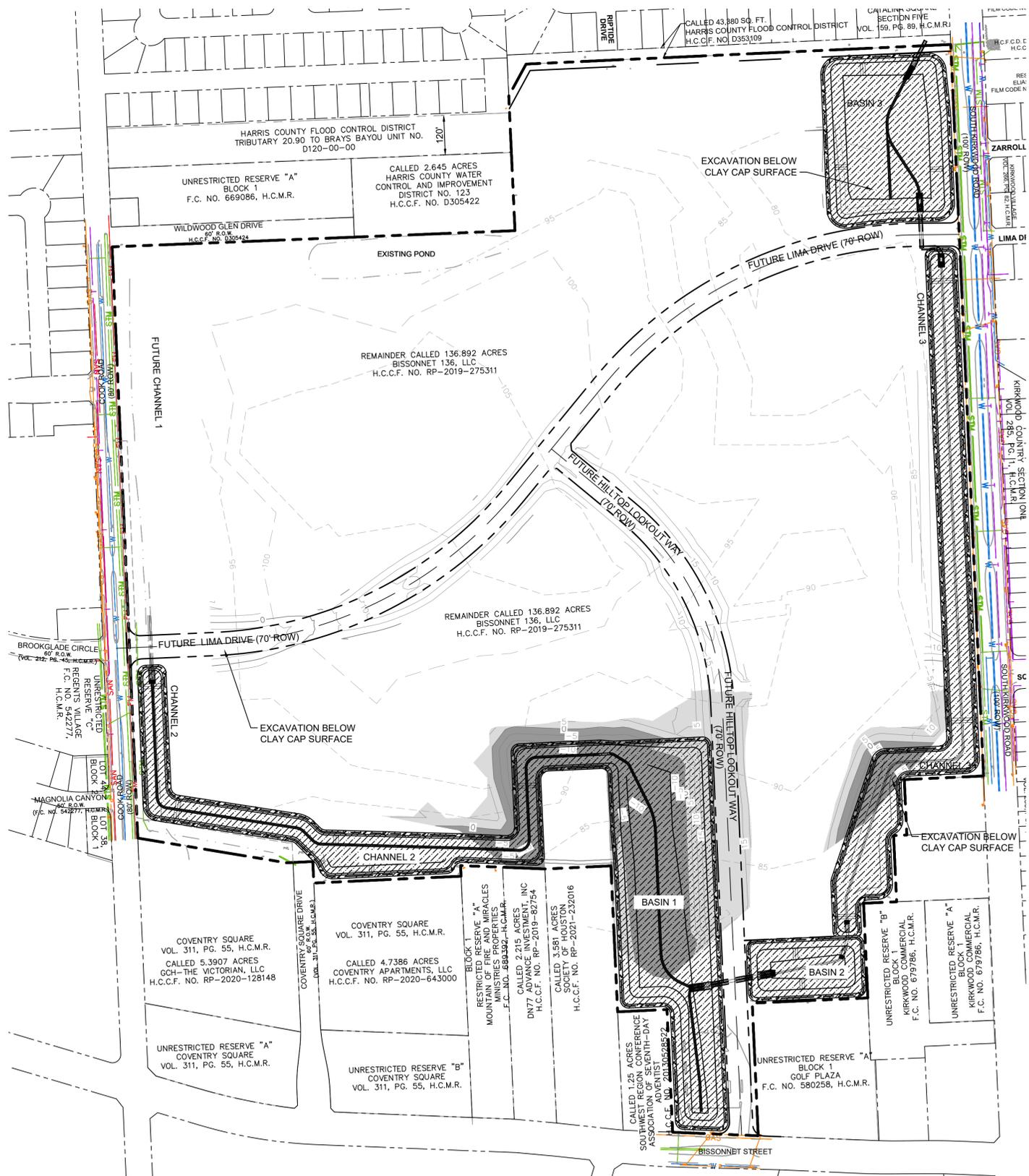
**MASS GRADING LAYOUT  
(SHEET 2 OF 2)**

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE
FILE NO.	HORIZ:
	VERT:
SHEET NO. C-20.20F C-28	DRAWING SCALE
FOR CITY OF HOUSTON USE ONLY	





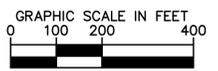
**NOTES**

1. THE 12000 BISSONNET PROPERTY WAS FORMERLY DEVELOPED AS THE SUGAR HILLS GOLF COURSE. THE GOLF COURSE, WHICH REMAINS LARGELY IN TACT TODAY, WAS DEVELOPED OVER THE DOTY SAND PIT VENTURE (DSPV) LANDFILL. THE DSPV OPERATED AS A TYPE IV LANDFILL FOR CONSTRUCTION AND DEMOLITION DEBRIS DISPOSAL. THE SITE WAS ISSUED A MUNICIPAL SOLID WASTE (MSW) PERMIT NO. 1247 BY TCEQ IN 1985. MSW PERMIT NO. 1247 IS ACTIVE AND THE SITE HAS BEEN IN POST CLOSURE CARE SINCE 1999.
2. SKA CONSULTING, L.P. IS SUBMITTING THE TCEQ PERMIT REQUIRED UNDER 30 TAC CHAPTER 330 SUBCHAPTER T. THIS PERMIT IS REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION.
3. ACCORDING TO THE SITE INVESTIGATION REPORT PREPARED BY SKA CONSULTING AND BASED ON 6 TEST PITS IN 2019, THE WASTE BELOW THE CLAY CAP CONSISTS OF 74% SOIL, 10% WOOD, 10% CONCRETE, 3% METAL, AND 3% MISCELLANEOUS MATERIALS SUCH AS RUBBER, PLASTIC AND TEXTILES. ALL WASTE OBSERVED WAS CONSISTENT WITH A TYPE IV LANDFILL OPERATION. PLEASE REFER TO THE SITE INVESTIGATION REPORT PREPARED BY SKA CONSULTING, L.P. FOR MORE DETAILED INFORMATION ON THE LANDFILL WASTE.
4. LANDFILL WASTE IS COVERED BY A CLAY CAP APPROXIMATELY 2-3' DEEP. THE LIMITS OF THE CLAY CAP SURFACE SHOWN ARE APPROXIMATED BASED ON SOIL BORINGS PERFORMED ONSITE AND ARE SHOWN FOR REFERENCE ONLY. ACTUAL LIMITS MAY VARY.
5. DUE TO THE AGE OF THE LANDFILL, ALL WASTE EXCAVATED BELOW THE CLAY CAP MUST BE TRANSPORTED TO CLASS 2 INDUSTRIAL WASTE LANDFILL SITES AND DISPOSED OF IN ACCORDANCE WITH TCEQ REGULATIONS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SITE DRAINAGE AND CONTROLLING RUNOFF FOR THE DURATION OF THE CONSTRUCTION CONTRACT. THIS SHALL INCLUDE CONSTRUCTION OF TEMPORARY SWALES OR PROVIDING PORTABLE PUMPS, IF REQUIRED, SO THAT CONSTRUCTION PROGRESS MAY CONTINUE.

**ESTIMATED EXCAVATION BELOW TOP SURFACE OF THE CLAY CAP: 89,900 CY**

**CAUTIONARY NOTES REGARDING THE LANDFILL**

1. ALL WORK DONE ON SITE MUST BE IN COMPLIANCE WITH THE GEOTECHNICAL REPORT COMPLETED BY GOODHEART & ASSOCIATES PLLC (PROJECT NO. 22-009.001) DATED OCTOBER 21, 2022 AND ANY SUPPLEMENTAL REPORTS ISSUED.
2. THE CLIENT UNDERSTANDS THAT DIFFERENTIAL SETTLING OF THE SITE WILL OCCUR AND THAT THE SITE WILL NEED TO BE INSPECTED AND MAINTAINED ON A MORE FREQUENT BASIS THAN A TYPICAL GREENFIELD SITE.
3. CORRECTIVE MEASURES REGARDING SITE SETTLEMENT, STORMWATER, LANDFILL CAP, OR MONITORING, AND LANDFILL GASES ARE TO BE IMPLEMENTED BY THE CLIENT TO THE DEGREE REQUIRED IN ORDER TO MINIMIZE HUMAN HEALTH RISKS OR IMPACTS TO THE ENVIRONMENT.
4. A MINIMUM OF 4 FEET OF COVER MUST BE MAINTAINED FROM THE LANDFILL CAP AT ALL TIMES. THE LANDFILL CAP SHALL NOT BE PENETRATED UNLESS IN AREAS WHERE REQUIRED BY INSTALLATION OF UTILITIES OR STORM WATER CONVEYANCE SYSTEMS. WHERE LANDFILL CAP IS PENETRATED, ALL PLANS FOR HANDLING, STOCKPILING, DAILY COVER, AND DISPOSAL OF WASTE ENCOUNTERED DURING CONSTRUCTION ARE TO BE PREPARED FOR THE CLIENT BY OTHERS.
5. THE FOLLOWING ITEMS SHALL BE COORDINATED WITH THE GEOTECHNICAL ENGINEER WITH REGARD TO SPECIAL STEPS TO BE TAKEN DUE TO THE LANDFILL PRIOR TO DESIGN AND INSTALLATION: SITE LIGHTING FOUNDATIONS, FENCE POSTS, CONCRETE FOOTINGS, AND ANY OTHER IMPROVEMENT THAT WILL INTRUDE INTO THE LANDFILL CAP.
6. PROPER VENTILATION OF LANDFILL GASES FROM THE LANDFILL, AS REQUIRED BY PERMIT OR REGULATORY AGENCY OR IF NEEDED, ARE TO BE DESIGNED, OPERATED, AND MAINTAINED BY OTHERS. RELOCATION, PLUGGING, AND ABANDONMENT OF EXISTING GAS VENTS OR MONITORING PROBES AND INSTALLATION OF ADDITIONAL GAS VENTS OR MONITORING PROBES IS TO BE PERFORMED BY OTHERS.
7. ALL SITE ACTIVITIES ARE TO BE CONDUCTED IN ACCORDANCE WITH ENVIRONMENTAL PERMIT DOCUMENTATION FOR THE PROJECT, INCLUDING ANY PERMITS REGARDING SOLID WASTE, LANDFILL GAS, MONITORING, AND REPORTING.
8. PLANS FOR HANDING, STOCKPILING, DAILY COVER, AND DISPOSAL OF WASTE ENCOUNTERED DURING CONSTRUCTION ARE TO BE PREPARED FOR THE CLIENT BY OTHERS.
9. PLANS FOR HANDLING AND DISPOSAL OF CONTAMINATED SOIL AND WATER GENERATED DURING CONSTRUCTION ARE TO BE PREPARED FOR THE CLIENT BY OTHERS.
10. OBSERVATION AND REPORTING ASSOCIATED WITH WASTE OR CONTAMINATED MEDIA GENERATED DURING CONSTRUCTION IS TO BE PROVIDED FOR THE CLIENT BY OTHERS.
11. CONTRACTORS SHALL BE RESPONSIBLE FOR PREPARATION, IMPLEMENTATION, MONITORING, AND REPORTING OF THEIR OWN SITE HEALTH AND SAFETY PLANS. HEALTH AND SAFETY PLANS SHALL TAKE INTO ACCOUNT THE KNOWN ENVIRONMENTAL CONDITIONS AND EXPOSURE RISKS ON THE PROPERTY.
12. ONSITE MONITORING WELLS ARE TO BE PLUGGED AND ABANDONED BY OTHERS PRIOR TO CONSTRUCTION.



NO.	DATE	REVISION	APP.

**NOTICE:**  
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

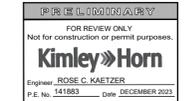
**VERIFICATION OF PRIVATE UTILITY LINES**

Date	
CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for conflict verification.	
Signature valid for six months.	
Date	
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This signature verifies existing underground facilities – not to be used for conflict verification)	
Signature valid for six months.	
Date	
Approved for AT&T underground conduit facilities only. Signature valid for one year.	

**Kimley»Horn**

11700 Katy Freeway,  
Suite 800 Houston, Texas 77079  
TBPE Firm Registration F-928

Tel. No. (281) 597-9300



**KIRKWOOD CROSSING**  
HOUSTON, TX 77048

**CLAY CAP EXCAVATION**

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/ STREET & BRIDGE
FILE NO.	HORIZ:
	VERT:
SHEET NO. C-21 OF C-28	DRAWING SCALE
FOR CITY OF HOUSTON USE ONLY	

**HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT  
APPLICATION FOR DISCHARGE TO COUNTY OR DISTRICT FACILITY**

**1. APPLICANT INFORMATION** (Please print or type)

Owner/Applicant

Name Bissonnet 136, LLC C/O Mark Lester

Applicant Mailing Address Twenty Park Road City Burlingame State CA Zip 94010

Home Phone (650) 291-7628 Daytime Phone (650) 638-0900 Fax (650) 638-0901 Pager \_\_\_\_\_

Agent/Consultant Name Mike Schultz, P.E. Phone (713) 266-6056 / (281) 813-6434

Agent's Mailing Address 1888 Stebbins Drive, Ste. 100 Houston State TX Zip 77043

**2. LOCATION OF PROPERTY**

Subdivision \_\_\_\_\_ Section \_\_\_\_\_ Block \_\_\_\_\_ Lot \_\_\_\_\_ Reserve \_\_\_\_\_

Street Address 12000 Bissonnet Street City Houston State TX Zip 77099

Survey Name H.T. & B. Railroad Survey, Section Nos. 11 and 9 and W.E. Sanders Survey Abstract Number 406, 407, and 1138 Acreage 136

Property Tax Account Number \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

**3. DISCHARGE LOCATION**

Attach the following documents in support of the application HCFC Ditch D120-00-00

A. Detailed Map Showing Discharge Point [ ] Key Map Page [ 529N ] attached GPS Latitude 29 ° 40 ' 49.36 "

B. Detailed Map Showing downstream Path for one mile after discharge point [  ] Longitude -95 ° 35 ' 30.79 "

**4. DISCHARGE PARAMETERS**

**A. Type**

- [ ] Treated Sewage Effluent [  ] Treated Stormwater  
 [ ] Potable Water [  ] Water that contains waste

B. Quantity: N/A Millions Gallons Per Day ( [ ] Initial [ ] Intermediate [  ] Final ) Check One

**C. Quality (Either Current or Proposed)**

BOD:= 5.7 mg/L TSS:= 57.7 mg/L  
 NH<sub>3</sub>-N= 4.1 mg/L Disinfection Type = N/A  
 O<sub>2</sub> = N/A Source [  ] Permit Application  
 Bacteria (Ecoli or Enterococcus) = N/A [ ] Other: \_\_\_\_\_ Specify

**5. OTHER PERMITS/APPLICATION:**

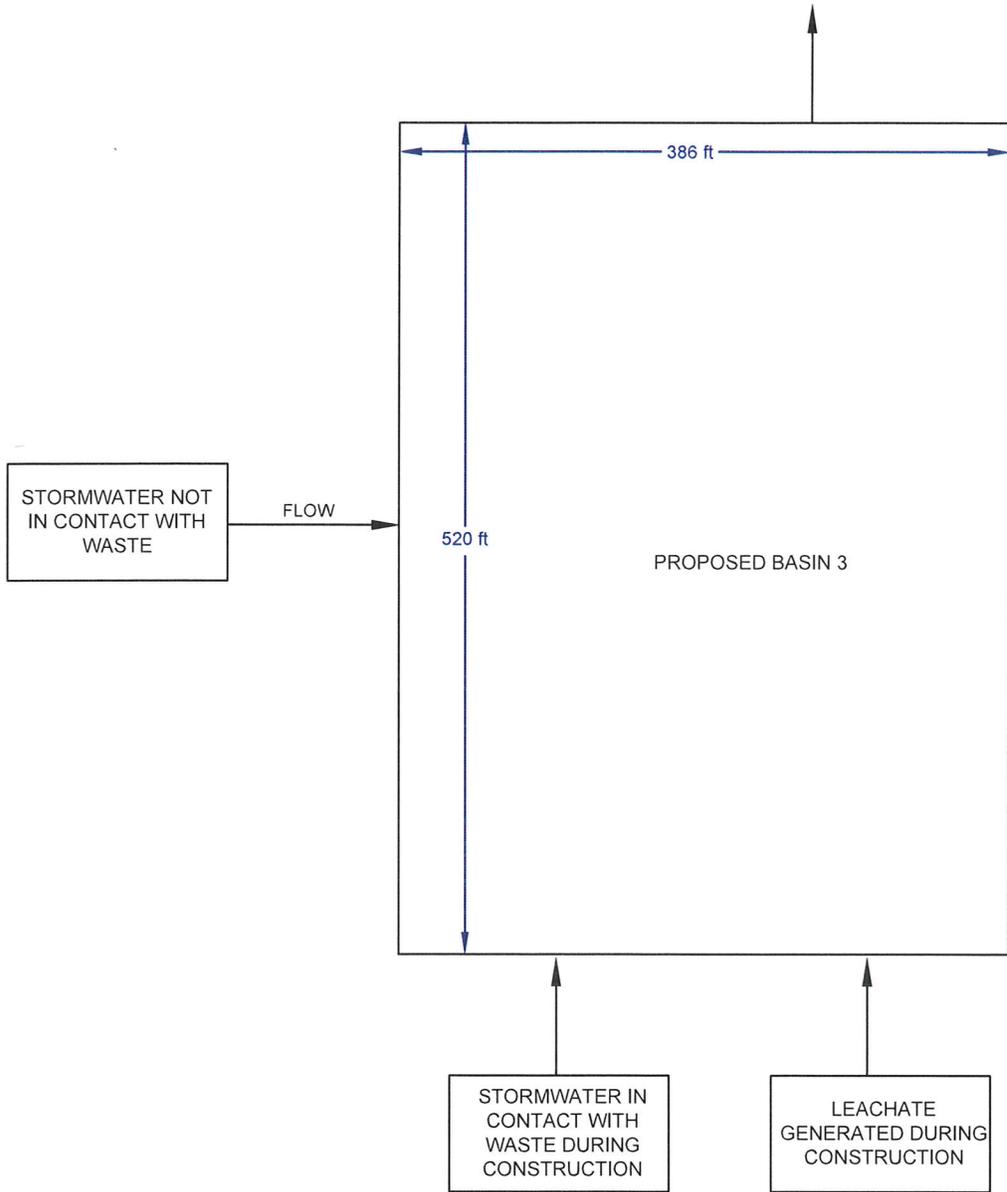
- [ ] TCEQ Discharge Permit # \_\_\_\_\_ [  ] New [ ] Renewal [ ] Amendment  
 [ ] Harris County Notice # \_\_\_\_\_ [ ] Harris County Development Permit # \_\_\_\_\_  
 [  ] Other: MSW 1247

I, Mike Schultz, P.E., the undersigned have carefully reviewed this application and my answers to all questions. To the best of my knowledge, the answers are all true and correct.

SIGNATURE of Applicant/Agent/Consultant or Attorney  Date 9/30/24

Receiving		Date Application Received
Applicant Number	Planchecker	
Request No.	Approved By	
Project ID No.	Date	
Clerk & Date	Vio No.	

OUTFALL 001  
(HCFCD D120-00-00)



**NOTES:**

1. THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.
2. "HCFCD" REPRESENTS THE HARRIS COUNTY FLOOD CONTROL DISTRICT.



SKA CONSULTING, L.P.  
1888 STEBBINS DR, STE 100  
HOUSTON, TEXAS 77043

Texas Registered Engineering Firm F-005009  
Texas Registered Geoscience Firm 50011

**FLOW DIAGRAM**

ATTACH  
**11**

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION  
DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS 77099

DATE: SEPTEMBER 2024    JOB NO: 5019-0003    SCALE: NTS

1	FIRST REVISION	-	DRAWN BY:	MLH
2	SECOND REVISION	-	CHECKED BY:	CLS
3	THIRD REVISION	-	APPROVED BY:	PMS



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	5 inches	33 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.6
3	33 inches	64 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.6

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
I41	USGS40001165953	1/4 - 1/2 Mile West
H47	USGS40001165890	1/4 - 1/2 Mile SSW
M65	USGS40001165944	1/2 - 1 Mile East
P93	USGS40001165993	1/2 - 1 Mile ENE
R100	USGS40001165828	1/2 - 1 Mile SSE
Q102	USGS40001166032	1/2 - 1 Mile WNW
Q103	USGS40001166033	1/2 - 1 Mile WNW
S106	USGS40001165882	1/2 - 1 Mile WSW

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
---------------	----------------	-------------------------

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	TXHG60000006995	1/8 - 1/4 Mile North
A2	TXHG60000006996	1/8 - 1/4 Mile North
A3	TXPLU6000001629	1/8 - 1/4 Mile North
B4	TXPLU6000095516	1/4 - 1/2 Mile SW
C5	TXMON6000136088	1/4 - 1/2 Mile SSW
C6	TXMON6000172270	1/4 - 1/2 Mile SSW
C7	TXMON6000136083	1/4 - 1/2 Mile SSW
C8	TXMON6000136084	1/4 - 1/2 Mile SSW
C9	TXPLU6000012868	1/4 - 1/2 Mile SSW
C10	TXPLU6000011115	1/4 - 1/2 Mile SSW
C11	TXPLU6000011109	1/4 - 1/2 Mile SSW
C12	TXPLU6000011112	1/4 - 1/2 Mile SSW
C13	TXPLU6000011110	1/4 - 1/2 Mile SSW
C14	TXPLU6000012869	1/4 - 1/2 Mile SSW
C15	TXMON6000219466	1/4 - 1/2 Mile SW
C16	TXMON6000219465	1/4 - 1/2 Mile SW
D17	TXWDB8000080627	1/4 - 1/2 Mile SE
B18	TXPLU6000007519	1/4 - 1/2 Mile SW
E19	TXPLU6000100541	1/4 - 1/2 Mile NW
E20	TXPLU6000100542	1/4 - 1/2 Mile NW
B21	TXMON6000253931	1/4 - 1/2 Mile SW
B22	TXMON6000253926	1/4 - 1/2 Mile SW
B23	TXMON6000253921	1/4 - 1/2 Mile SW
B24	TXPLU6000129465	1/4 - 1/2 Mile SW
B25	TXPLU6000129464	1/4 - 1/2 Mile SW
B26	TXPLU6000129463	1/4 - 1/2 Mile SW
B27	TXPLU6000007515	1/4 - 1/2 Mile SW
B28	TXPLU6000007514	1/4 - 1/2 Mile SW
B29	TXMON6000054175	1/4 - 1/2 Mile SW
B30	TXMON6000054170	1/4 - 1/2 Mile SW
F31	TXPLU6000007516	1/4 - 1/2 Mile SW
D32	TXWDB8000080626	1/4 - 1/2 Mile SSE
F33	TXPLU6000007520	1/4 - 1/2 Mile SW
G34	TXMON6000079830	1/4 - 1/2 Mile SE
G35	TXPLU6000075584	1/4 - 1/2 Mile SE
G36	TXHG60000001870	1/4 - 1/2 Mile SE
H37	TXBR40000088679	1/4 - 1/2 Mile SSW
H39	TXWDB8000085777	1/4 - 1/2 Mile SSW
H40	TXEQ70000009012	1/4 - 1/2 Mile SSW
J42	TXMON6000414837	1/4 - 1/2 Mile SW
J43	TXMON6000414844	1/4 - 1/2 Mile SW
J44	TXMON6000414853	1/4 - 1/2 Mile SW
J45	TXMON6000414796	1/4 - 1/2 Mile SW

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
H46	TXHG6000000358	1/4 - 1/2 Mile SSW
J48	TXMON6000474777	1/4 - 1/2 Mile SW
J49	TXMON6000489189	1/4 - 1/2 Mile SW
K50	TXMON6000143153	1/4 - 1/2 Mile NNE
K51	TXMON6000143152	1/4 - 1/2 Mile NNE
J52	TXMON6000438743	1/4 - 1/2 Mile SW
J53	TXMON6000438742	1/4 - 1/2 Mile SW
J54	TXMON6000438745	1/4 - 1/2 Mile SW
J55	TXMON6000454274	1/4 - 1/2 Mile SW
J56	TXMON6000454264	1/4 - 1/2 Mile SW
I57	TXWDB8000082417	1/2 - 1 Mile West
I58	TXEQ70000009020	1/2 - 1 Mile West
I59	TXPLU6000007517	1/2 - 1 Mile West
I60	TXHG60000001047	1/2 - 1 Mile West
L61	TXMON6000439298	1/2 - 1 Mile SW
L62	TXMON6000432324	1/2 - 1 Mile SW
L63	TXMON6000489176	1/2 - 1 Mile SW
M64	TXWDB8000081351	1/2 - 1 Mile East
L66	TXMON6000474773	1/2 - 1 Mile SW
L67	TXMON6000438746	1/2 - 1 Mile SW
M68	TXEQ70000009037	1/2 - 1 Mile East
M69	TXHG60000000367	1/2 - 1 Mile East
70	TXHG60000012846	1/2 - 1 Mile NE
N71	TXMON6000364058	1/2 - 1 Mile WSW
N72	TXMON6000364060	1/2 - 1 Mile WSW
N73	TXMON6000364059	1/2 - 1 Mile WSW
N74	TXMON6000364056	1/2 - 1 Mile WSW
75	TXMON6000403268	1/2 - 1 Mile SE
O76	TXMON6000411640	1/2 - 1 Mile WSW
O77	TXMON6000411641	1/2 - 1 Mile WSW
O78	TXMON6000394249	1/2 - 1 Mile WSW
O79	TXMON6000386004	1/2 - 1 Mile WSW
O80	TXMON6000386070	1/2 - 1 Mile WSW
O81	TXMON6000386084	1/2 - 1 Mile WSW
O82	TXMON6000394250	1/2 - 1 Mile WSW
O83	TXMON6000386077	1/2 - 1 Mile WSW
O84	TXMON6000394252	1/2 - 1 Mile WSW
O85	TXMON6000394251	1/2 - 1 Mile WSW
O86	TXMON6000448417	1/2 - 1 Mile WSW
O87	TXMON6000448430	1/2 - 1 Mile WSW
O88	TXMON6000448423	1/2 - 1 Mile WSW
O89	TXMON6000448428	1/2 - 1 Mile WSW
P90	TXHG60000000366	1/2 - 1 Mile ENE
P91	TXWDB8000082419	1/2 - 1 Mile ENE
P92	TXEQ70000009002	1/2 - 1 Mile ENE
94	TXWDB8000076028	1/2 - 1 Mile ESE
95	TXWDB8000092010	1/2 - 1 Mile NNW
96	TXWDB8000082418	1/2 - 1 Mile SSE
Q97	TXWDB8000077124	1/2 - 1 Mile WNW
Q98	TXWDB8000085779	1/2 - 1 Mile WNW
R99	TXEQ70000009039	1/2 - 1 Mile SSE
R101	TXHG60000002247	1/2 - 1 Mile SSE

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

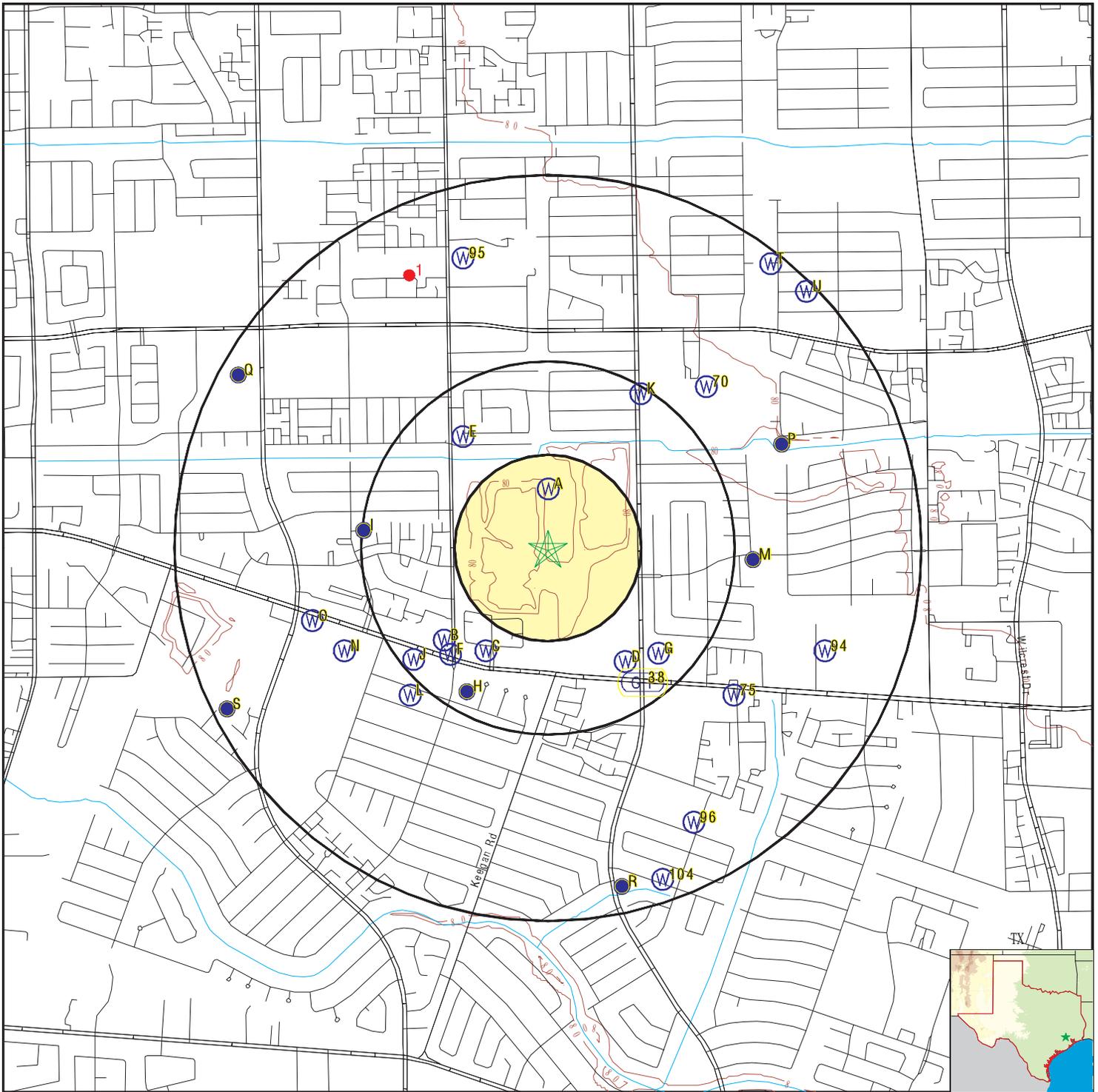
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
104	TXWDB8000077441	1/2 - 1 Mile SSE
S105	TXEQ70000009038	1/2 - 1 Mile WSW
S107	TXHG60000000359	1/2 - 1 Mile WSW
S108	TXWDB8000076448	1/2 - 1 Mile WSW
T109	TXPLU6000174435	1/2 - 1 Mile NE
T110	TXMON6000466844	1/2 - 1 Mile NE
Q111	TXHG60000005042	1/2 - 1 Mile WNW
Q112	TXEQ70000009386	1/2 - 1 Mile WNW
U113	TXPLU6000153535	1/2 - 1 Mile NE
U114	TXMON6000408690	1/2 - 1 Mile NE
Q115	TXEQ70000009385	1/2 - 1 Mile WNW
Q116	TXHG60000005041	1/2 - 1 Mile WNW

## OTHER STATE DATABASE INFORMATION

### STATE OIL/GAS WELL INFORMATION

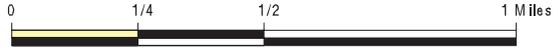
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	TXOG90001088944	1/2 - 1 Mile NNW

# PHYSICAL SETTING SOURCE MAP - 7408766.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil or gas wells



SITE NAME: 12.085-Acre Kirkwood Crossing Property  
 ADDRESS: 12000 Bissonnet Street  
 Houston TX 77099  
 LAT/LONG: 29.68039 / 95.591502

CLIENT: SKA Consulting, LP  
 CONTACT: Courtney Sims  
 INQUIRY #: 7408766.2s  
 DATE: August 04, 2023 12:52 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A1**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**TX WELLS      TXHG6000006995**

Database:	Water Well Database	Well #:	8037
Permittee:	Houston, City of	Permit #:	127172
Start Date of Permit:	2/1/2007	Exp Date of Permit:	2/1/2007
Usage:	Other	Active:	Inactive
Year Drilled:	2000	Diameter:	8
Depth (ft):	450	Depth to 1st Screen (ft):	400

**A2**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**TX WELLS      TXHG6000006996**

Database:	Water Well Database	Well #:	8038
Permittee:	Houston, City of	Permit #:	127173
Start Date of Permit:	2/1/2007	Exp Date of Permit:	2/1/2007
Usage:	Other	Active:	Inactive
Year Drilled:	2001	Diameter:	6
Depth (ft):	450	Depth to 1st Screen (ft):	400

**A3**  
**North**  
**1/8 - 1/4 Mile**  
**Lower**

**TX WELLS      TXPLU6000001629**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	9568
Well Type:	Monitor	Borehole Depth (ft):	20

**B4**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000095516**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	20339
Well Type:	Monitor	Borehole Depth (ft):	20

**C5**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000136088**

Database:	Submitted Drillers Reports Database		
Well Report #:	138443	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**C6**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000172270**

Database:	Submitted Drillers Reports Database		
Well Report #:	175150	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	24
Injurious Water Quality:	no	Plugging Rpt #:	73437

**C7**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000136083**

Database:	Submitted Drillers Reports Database		
Well Report #:	138438	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	19.5
Injurious Water Quality:	Not Reported	Plugging Rpt #:	73435

**C8**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000136084**

Database:	Submitted Drillers Reports Database		
Well Report #:	138439	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	17
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

**C9**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000012868**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	175150	Plugging Rpt #:	73437
Well Type:	Monitor	Borehole Depth (ft):	24

**C10**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000011115**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	222866	Plugging Rpt #:	73439
Well Type:	Monitor	Borehole Depth (ft):	24

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**C11**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000011109**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	73432
Well Type:	Monitor	Borehole Depth (ft):	0

**C12**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000011112**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	73430
Well Type:	Monitor	Borehole Depth (ft):	0

**C13**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000011110**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	138438	Plugging Rpt #:	73435
Well Type:	Monitor	Borehole Depth (ft):	20

**C14**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000012869**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	22285	Plugging Rpt #:	73438
Well Type:	Monitor	Borehole Depth (ft):	24

**C15**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000219466**

Database:	Submitted Drillers Reports Database		
Well Report #:	222866	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	24
Injurious Water Quality:	no	Plugging Rpt #:	73439

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**C16**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000219465**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	222865	Borehole Depth (ft):	24
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**D17**  
**SE**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXWDB8000080627**

Database:	Groundwater Database	Well #:	6520404
Primary Water Use:	Domestic	Elevation (ft):	86
Well Depth (ft):	331	Observation Type:	Miscellaneous Measurements
Water Quality Review:	No	Aquifer:	112CHCTL - Chicot Aquifer, Lower
Well Type:	Withdrawal of Water		

**B18**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000007519**

Database:	Submitted Drillers Reports Database (Plugged)	Well #:	
Well Report #:	Not Reported	Plugging Rpt #:	19171
Well Type:	Monitor	Borehole Depth (ft):	20

**E19**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000100541**

Database:	Submitted Drillers Reports Database (Plugged)	Well #:	
Well Report #:	Not Reported	Plugging Rpt #:	3726
Well Type:	Withdrawal of Water	Borehole Depth (ft):	0

**E20**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000100542**

Database:	Submitted Drillers Reports Database (Plugged)	Well #:	
Well Report #:	Not Reported	Plugging Rpt #:	3727
Well Type:	Withdrawal of Water	Borehole Depth (ft):	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**B21**  
**SW**  
 1/4 - 1/2 Mile  
 Higher

**TX WELLS      TXMON6000253931**

Database:	Submitted Drillers Reports Database		
Well Report #:	257875	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	12
Injurious Water Quality:	Not Reported	Plugging Rpt #:	131517

**B22**  
**SW**  
 1/4 - 1/2 Mile  
 Higher

**TX WELLS      TXMON6000253926**

Database:	Submitted Drillers Reports Database		
Well Report #:	257870	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	12
Injurious Water Quality:	Not Reported	Plugging Rpt #:	131516

**B23**  
**SW**  
 1/4 - 1/2 Mile  
 Higher

**TX WELLS      TXMON6000253921**

Database:	Submitted Drillers Reports Database		
Well Report #:	257865	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	12
Injurious Water Quality:	Not Reported	Plugging Rpt #:	131515

**B24**  
**SW**  
 1/4 - 1/2 Mile  
 Higher

**TX WELLS      TXPLU6000129465**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	257875	Plugging Rpt #:	131517
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	12

**B25**  
**SW**  
 1/4 - 1/2 Mile  
 Higher

**TX WELLS      TXPLU6000129464**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	257870	Plugging Rpt #:	131516
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	12

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**B26**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000129463**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	257865	Plugging Rpt #:	131515
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	12

**B27**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000007515**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	19167
Well Type:	Monitor	Borehole Depth (ft):	20

**B28**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000007514**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	19166
Well Type:	Monitor	Borehole Depth (ft):	20

**B29**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000054175**

Database:	Submitted Drillers Reports Database		
Well Report #:	55303	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

**B30**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000054170**

Database:	Submitted Drillers Reports Database		
Well Report #:	55298	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**F31**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000007516**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	19168
Well Type:	Monitor	Borehole Depth (ft):	20

**D32**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXWDB8000080626**

Database:	Groundwater Database	Well #:	6520402
Primary Water Use:	Unused	Elevation (ft):	86
Well Depth (ft):	688	Observation Type:	Miscellaneous Measurements
Water Quality Review:	No	Aquifer:	112CHCTL - Chicot Aquifer, Lower
Well Type:	Withdrawal of Water		

**F33**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000007520**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	19172
Well Type:	Monitor	Borehole Depth (ft):	20

**G34**  
**SE**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000079830**

Database:	Submitted Drillers Reports Database		
Well Report #:	81241	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	31162

**G35**  
**SE**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXPLU6000075584**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	81241	Plugging Rpt #:	31162
Well Type:	Monitor	Borehole Depth (ft):	20

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**G36**  
**SE**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXHG60000001870**

Database:	Water Well Database	Well #:	2894
Permittee:	Southwestern Bell Telephone Co.		
Permit #:	16056	Start Date of Permit:	11/1/1982
Exp Date of Permit:	10/31/1983	Usage:	Public Supply
Active:	Inactive	Year Drilled:	1966
Diameter:	4	Depth (ft):	331
Depth to 1st Screen (ft):	306		

**H37**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXBR40000088679**

Database:	Brackish Resources Aquifer Characterization System Database		
Well ID:	96794	Well Type:	Oil or Gas
Well Use:	Resource production		
Data Source:	RRC GAU Q Paper/Digital Geophysical Logs		
Well Depth (ft):	-99999	Well Bottom Elevation (ft):	-99999
Total Hole Depth (ft):	1410	Bottom Hole Elevation (ft):	-99999
Drill Date:	09/18/1971	Kelly Bushing Height (ft):	0
Remarks:	KB=0		

**38**  
**SE**  
**1/4 - 1/2 Mile**  
**Higher**

**AQUIFLOW      58921**

Site ID:	108667
Groundwater Flow:	VARIABLE
Shallowest Water Table Depth:	6.8
Deepest Water Table Depth:	9.05
Average Water Table Depth:	Not Reported
Date:	2-28-98

**H39**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXWDB8000085777**

Database:	Groundwater Database	Well #:	6520410
Primary Water Use:	Public Supply	Elevation (ft):	86
Well Depth (ft):	1180	Observation Type:	USGS Current Observation Well
Water Quality Review:	No	Aquifer:	121EVGL - Evangeline Aquifer
Well Type:	Withdrawal of Water		

**H40**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXEQ70000009012**

Database:	Public Water Supply Sources Databases		
PWS ID:	1010013	Water Source:	G1010013DI
Locating Agency:	TCEQ	Elevation:	85

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Construction Information:**

Record #:	2	Well Interval:	CASING
Top Depth (ft):	0	Bottom Depth (ft):	685
Casing Above Surface:	Not Reported	Diameter (in):	16
Type of Well Opening:	Not Reported	Casing Material:	UNKNOWN
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	3	Well Interval:	CASING
Top Depth (ft):	580	Bottom Depth (ft):	696
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	Not Reported	Casing Material:	UNKNOWN
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	4	Well Interval:	WELL OPENINGS
Top Depth (ft):	696	Bottom Depth (ft):	725
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	SCREEN - TYPE NOT KNOWN	Casing Material:	Not Reported
Opening Material:	UNKNOWN	Opening Length (ft):	29
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	5	Well Interval:	CASING
Top Depth (ft):	725	Bottom Depth (ft):	765
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	Not Reported	Casing Material:	UNKNOWN
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	6	Well Interval:	WELL OPENINGS
Top Depth (ft):	765	Bottom Depth (ft):	785
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	SCREEN - TYPE NOT KNOWN	Casing Material:	Not Reported
Opening Material:	UNKNOWN	Opening Length (ft):	20
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	7	Well Interval:	CASING
Top Depth (ft):	785	Bottom Depth (ft):	815
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	Not Reported	Casing Material:	UNKNOWN
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Record #:	8	Well Interval:	WELL OPENINGS
Top Depth (ft):	815	Bottom Depth (ft):	884
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	SCREEN - TYPE NOT KNOWN	Casing Material:	Not Reported
Opening Material:	UNKNOWN	Opening Length (ft):	69
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	9	Well Interval:	CASING
Top Depth (ft):	884	Bottom Depth (ft):	915
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	Not Reported	Casing Material:	UNKNOWN
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	10	Well Interval:	WELL OPENINGS
Top Depth (ft):	915	Bottom Depth (ft):	944
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	SCREEN - TYPE NOT KNOWN	Casing Material:	Not Reported
Opening Material:	UNKNOWN	Opening Length (ft):	29
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	11	Well Interval:	CASING
Top Depth (ft):	944	Bottom Depth (ft):	980
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	Not Reported	Casing Material:	UNKNOWN
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	12	Well Interval:	WELL OPENINGS
Top Depth (ft):	980	Bottom Depth (ft):	1005
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	SCREEN - TYPE NOT KNOWN	Casing Material:	Not Reported
Opening Material:	UNKNOWN	Opening Length (ft):	25
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	13	Well Interval:	CASING
Top Depth (ft):	1005	Bottom Depth (ft):	1145
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	Not Reported	Casing Material:	UNKNOWN
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	14	Well Interval:	WELL OPENINGS
Top Depth (ft):	1145	Bottom Depth (ft):	1175

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	SCREEN - TYPE NOT KNOWN	Casing Material:	Not Reported
Opening Material:	UNKNOWN	Opening Length (ft):	30
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	15	Well Interval:	CASING
Top Depth (ft):	1175	Bottom Depth (ft):	1190
Casing Above Surface:	Not Reported	Diameter (in):	11
Type of Well Opening:	Not Reported	Casing Material:	UNKNOWN
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Water Level Information:**

Date Water Level Measure:	19731228	Feet below Ground Surface:	-258
Collecting Agency:	DRILL	Collection Method:	REPORTED - METHOD NOT KNOWN
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19960117	Feet below Ground Surface:	-273.34
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19910114	Feet below Ground Surface:	-328.0
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19920115	Feet below Ground Surface:	-345.0
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19930113	Feet below Ground Surface:	-328.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19940105	Feet below Ground Surface:	-310.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19950113	Feet below Ground Surface:	-280.0
Collecting Agency:	USGS	Collection Method:	STEEL TAPE

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Remarks: Not Reported

**Water Level Information:**

Date Water Level Measure:	19960926	Feet below Ground Surface:	-330.0
Collecting Agency:	USGS	Collection Method:	ELECTRIC TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19970123	Feet below Ground Surface:	-279.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	Not Reported		

**I41  
West  
1/4 - 1/2 Mile  
Higher**

**FED USGS      USGS40001165953**

Organization ID:	USGS-TX	Organization Name:	USGS Texas Water Science Center
Monitor Location:	LJ-65-20-416	Type:	Well
Description:	Not Reported	HUC:	12040104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Coastal lowlands aquifer system		
Formation Type:	Chicot and Evangeline Aquifers	Construction Date:	Not Reported
Aquifer Type:	Confined multiple aquifer	Well Depth Units:	ft
Well Depth:	872	Well Hole Depth Units:	Not Reported
Well Hole Depth:	Not Reported		

Ground water levels,Number of Measurements:	40	Level reading date:	2005-02-04
Feet below surface:	289.11	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2004-11-05	Feet below surface:	279
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2004-09-21	Feet below surface:	354
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	2004-04-07	Feet below surface:	339
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	2004-01-21	Feet below surface:	274
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2003-10-31	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2003-09-12	Feet below surface:	357
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	2003-04-11	Feet below surface:	420
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	2003-01-27	Feet below surface:	262.14
Feet to sea level:	Not Reported	Note:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	2002-11-14	Feet below surface:	274.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-09-27	Feet below surface:	352
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2002-06-05	Feet below surface:	290
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-05-13	Feet below surface:	350
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2002-02-28	Feet below surface:	265
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-09-21	Feet below surface:	370
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2001-04-27	Feet below surface:	387
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2001-01-05	Feet below surface:	290
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-05	Feet below surface:	292
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-05	Feet below surface:	388
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1998-05-21	Feet below surface:	368
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1998-01-27	Feet below surface:	267.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-27	Feet below surface:	269
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-11-05	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-09-11	Feet below surface:	376
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1997-05-02	Feet below surface:	356
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1997-01-27	Feet below surface:	270.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-09-26	Feet below surface:	378
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1996-01-17	Feet below surface:	267.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-01-17	Feet below surface:	272
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-01-13	Feet below surface:	281
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1995-01-13	Feet below surface:	280.23
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1994-01-04	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-01-13	Feet below surface:	291
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1992-09-09	Feet below surface:	374
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1992-01-15	Feet below surface:	297
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1991-01-14	Feet below surface:	307
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-01-19	Feet below surface:	296.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-01-17	Feet below surface:	304.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-01-06	Feet below surface:	280.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-01-15	Feet below surface:	285.4
Feet to sea level:	Not Reported	Note:	Not Reported

**J42  
SW  
1/4 - 1/2 Mile  
Higher**

**TX WELLS      TXMON6000414837**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	422815	Borehole Depth (ft):	20
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**J43  
SW  
1/4 - 1/2 Mile  
Higher**

**TX WELLS      TXMON6000414844**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	422812	Borehole Depth (ft):	20
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**J44  
SW  
1/4 - 1/2 Mile  
Higher**

**TX WELLS      TXMON6000414853**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	422810		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Proposed Use:	Monitor	Borehole Depth (ft):	12
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

**J45  
SW  
1/4 - 1/2 Mile  
Higher**

**TX WELLS TXMON6000414796**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	422817	Borehole Depth (ft):	40
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**H46  
SSW  
1/4 - 1/2 Mile  
Higher**

**TX WELLS TXHG60000000358**

Database:	Water Well Database	Well #:	1374
Permittee:	Houston, City of	Permit #:	214795
Start Date of Permit:	2/1/2021	Exp Date of Permit:	1/31/2022
Usage:	Public Supply	Active:	Active
Year Drilled:	1972	Diameter:	16
Depth (ft):	1195	Depth to 1st Screen (ft):	700

**H47  
SSW  
1/4 - 1/2 Mile  
Higher**

**FED USGS USGS40001165890**

Organization ID:	USGS-TX	Organization Name:	USGS Texas Water Science Center
Monitor Location:	LJ-65-20-410	Type:	Well
Description:	Not Reported	HUC:	12040104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Coastal lowlands aquifer system	Aquifer Type:	Confined multiple aquifer
Formation Type:	Evangeline Aquifer	Well Depth:	1195
Construction Date:	197201	Well Hole Depth:	1195
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	24	Level reading date:	2005-02-04
Feet below surface:	280.60	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2004-11-05	Feet below surface:	292.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-01-22	Feet below surface:	271.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-10-31	Feet below surface:	255.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-01-27	Feet below surface:	259.31

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-11-14	Feet below surface:	273.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-02-27	Feet below surface:	263.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-01-17	Feet below surface:	298.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-05	Feet below surface:	292.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-26	Feet below surface:	270
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1997-11-05	Feet below surface:	293
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-09-12	Feet below surface:	334
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1997-05-02	Feet below surface:	310
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1997-01-23	Feet below surface:	279
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-09-26	Feet below surface:	330
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1996-01-17	Feet below surface:	273.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-01-17	Feet below surface:	272
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-01-13	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-01-05	Feet below surface:	310
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-01-13	Feet below surface:	328
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-01-15	Feet below surface:	345
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1991-01-14	Feet below surface:	328
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1990-01-19	Feet below surface:	312
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1972-01	Feet below surface:	225
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**J48**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000474777**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	487476	Borehole Depth (ft):	40
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**J49**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000489189**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	503830	Borehole Depth (ft):	40
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**K50**  
**NNE**  
**1/4 - 1/2 Mile**  
**Lower**

**TX WELLS      TXMON6000143153**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	145647	Borehole Depth (ft):	30
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	Not Reported		

**K51**  
**NNE**  
**1/4 - 1/2 Mile**  
**Lower**

**TX WELLS      TXMON6000143152**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	145646	Borehole Depth (ft):	30
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	Not Reported		

**J52**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000438743**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	448823	Borehole Depth (ft):	40
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**J53**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000438742**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	448825	Borehole Depth (ft):	40
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**J54**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000438745**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	448804	Borehole Depth (ft):	20
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**J55**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000454274**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	465909	Borehole Depth (ft):	40
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**J56**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**TX WELLS      TXMON6000454264**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	465907	Borehole Depth (ft):	40
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**I57**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXWDB8000082417**

Database:	Groundwater Database	Well #:	6520416
Primary Water Use:	Public Supply	Elevation (ft):	85
Well Depth (ft):	872	Observation Type:	USGS Current Observation Well
Water Quality Review:	Yes	Aquifer:	121EVGL - Evangeline Aquifer
Well Type:	Withdrawal of Water		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**I58**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXEQ70000009020**

Database:	Public Water Supply Sources Databases	Water Source:	G1010013DR
PWS ID:	1010013	Elevation:	84
Locating Agency:	TCEQ		

**Construction Information:**

Record #:	1	Well Interval:	ANNULAR CEMENT
Top Depth (ft):	0	Bottom Depth (ft):	570
Casing Above Surface:	Not Reported	Diameter (in):	0
Type of Well Opening:	Not Reported	Casing Material:	Not Reported
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	4	Well Interval:	WELL OPENINGS
Top Depth (ft):	577	Bottom Depth (ft):	866
Casing Above Surface:	Not Reported	Diameter (in):	10
Type of Well Opening:	SCREEN - TYPE NOT KNOWN	Casing Material:	Not Reported
Opening Material:	UNKNOWN	Opening Length (ft):	289
Opening Method:	Opening Interval = Top Of Shallowest Screen To Bottom Of Deepest Screen		
Packer Material:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19860115	Feet below Ground Surface:	-285.4
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19880106	Feet below Ground Surface:	-280.31
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19890117	Feet below Ground Surface:	-304.21
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19900119	Feet below Ground Surface:	-296.15
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date Water Level Measure:	19910114	Feet below Ground Surface:	-307.0
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19920115	Feet below Ground Surface:	-297.0
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19930113	Feet below Ground Surface:	-291.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19940104	Feet below Ground Surface:	-277.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19950113	Feet below Ground Surface:	-280.23
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19960117	Feet below Ground Surface:	-267.26
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19960926	Feet below Ground Surface:	-378.0
Collecting Agency:	USGS	Collection Method:	ELECTRIC TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19970127	Feet below Ground Surface:	-270.39
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**I59  
West  
1/2 - 1 Mile  
Higher**

**TX WELLS TXPLU6000007517**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	19169

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Type: Monitor Borehole Depth (ft): 18

**I60**  
West  
1/2 - 1 Mile  
Higher

**TX WELLS TXHG60000001047**

Database:	Water Well Database	Well #:	2068
Permittee:	Houston, City of	Permit #:	214827
Start Date of Permit:	2/1/2021	Exp Date of Permit:	1/31/2022
Usage:	Public Supply	Active:	Active
Year Drilled:	1971	Diameter:	10
Depth (ft):	872	Depth to 1st Screen (ft):	606

**L61**  
SW  
1/2 - 1 Mile  
Higher

**TX WELLS TXMON6000439298**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	448799	Borehole Depth (ft):	45
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**L62**  
SW  
1/2 - 1 Mile  
Higher

**TX WELLS TXMON6000432324**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	442262	Borehole Depth (ft):	20
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**L63**  
SW  
1/2 - 1 Mile  
Higher

**TX WELLS TXMON6000489176**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	503826	Borehole Depth (ft):	40
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**M64**  
East  
1/2 - 1 Mile  
Lower

**TX WELLS TXWDB8000081351**

Database:	Groundwater Database	Well #:	6520516
Primary Water Use:	Public Supply	Elevation (ft):	85
Well Depth (ft):	960	Observation Type:	USGS Current Observation Well



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	2001-01-17	Feet below surface:	329.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-05	Feet below surface:	330.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-05-21	Feet below surface:	355
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1998-01-27	Feet below surface:	276.30
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1997-11-06	Feet below surface:	291.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-01-23	Feet below surface:	280.96
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1996-01-19	Feet below surface:	282.27
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1995-01-19	Feet below surface:	337
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-01-12	Feet below surface:	300.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-01-05	Feet below surface:	314
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-01-13	Feet below surface:	314
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1990-01-23	Feet below surface:	305.22
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1975-12	Feet below surface:	246
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.

**L66  
SW  
1/2 - 1 Mile  
Higher**

**TX WELLS TXMON600047773**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	487474	Borehole Depth (ft):	40
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**L67  
SW  
1/2 - 1 Mile  
Higher**

**TX WELLS TXMON6000438746**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	448802	Borehole Depth (ft):	45
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**M68**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**TX WELLS      TXEQ70000009037**

Database:	Public Water Supply Sources Databases		
PWS ID:	1010013	Water Source:	G1010013EH
Locating Agency:	TCEQ	Elevation:	83

**Construction Information:**

Record #:	1	Well Interval:	ANNULAR CEMENT
Top Depth (ft):	0	Bottom Depth (ft):	690
Casing Above Surface:	Not Reported	Diameter (in):	0
Type of Well Opening:	Not Reported	Casing Material:	Not Reported
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	2	Well Interval:	OPENING INTERVAL
Top Depth (ft):	700	Bottom Depth (ft):	960
Casing Above Surface:	Not Reported	Diameter (in):	0
Type of Well Opening:	UNKNOWN	Casing Material:	Not Reported
Opening Material:	UNKNOWN	Opening Length (ft):	232
Opening Method:	Opening Interval = Top Of Shallowest Screen To Bottom Of Deepest Screen		
Packer Material:	Not Reported		

**Geologic Information:**

Record #:	1	Top Geo Unit Below Surface (ft):	0
Bottom Geo Unit Below Surface (ft):	3	Geo Unit Thickness (ft):	3
Geo Unit Description:	SURFACE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	2	Top Geo Unit Below Surface (ft):	3
Bottom Geo Unit Below Surface (ft):	15	Geo Unit Thickness (ft):	12
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	3	Top Geo Unit Below Surface (ft):	15
Bottom Geo Unit Below Surface (ft):	39	Geo Unit Thickness (ft):	24
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Record #:	4	Top Geo Unit Below Surface (ft):	39
Bottom Geo Unit Below Surface (ft):	160	Geo Unit Thickness (ft):	121
Geo Unit Description:	CLAY, SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	5	Top Geo Unit Below Surface (ft):	160
Bottom Geo Unit Below Surface (ft):	180	Geo Unit Thickness (ft):	20
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	6	Top Geo Unit Below Surface (ft):	180
Bottom Geo Unit Below Surface (ft):	260	Geo Unit Thickness (ft):	80
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	7	Top Geo Unit Below Surface (ft):	260
Bottom Geo Unit Below Surface (ft):	332	Geo Unit Thickness (ft):	72
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	8	Top Geo Unit Below Surface (ft):	332
Bottom Geo Unit Below Surface (ft):	390	Geo Unit Thickness (ft):	58
Geo Unit Description:	SAND, CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	9	Top Geo Unit Below Surface (ft):	390
Bottom Geo Unit Below Surface (ft):	420	Geo Unit Thickness (ft):	30
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	10	Top Geo Unit Below Surface (ft):	420
Bottom Geo Unit Below Surface (ft):	460	Geo Unit Thickness (ft):	40
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Record #:	11	Top Geo Unit Below Surface (ft):	460
Bottom Geo Unit Below Surface (ft):	590	Geo Unit Thickness (ft):	130
Geo Unit Description:	SAND, ROCK		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	12	Top Geo Unit Below Surface (ft):	590
Bottom Geo Unit Below Surface (ft):	603	Geo Unit Thickness (ft):	13
Geo Unit Description:	CLAY ROCK		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	13	Top Geo Unit Below Surface (ft):	603
Bottom Geo Unit Below Surface (ft):	670	Geo Unit Thickness (ft):	67
Geo Unit Description:	SAND, ROCK		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	14	Top Geo Unit Below Surface (ft):	670
Bottom Geo Unit Below Surface (ft):	700	Geo Unit Thickness (ft):	30
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	15	Top Geo Unit Below Surface (ft):	700
Bottom Geo Unit Below Surface (ft):	710	Geo Unit Thickness (ft):	10
Geo Unit Description:	SAND, ROCK		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	16	Top Geo Unit Below Surface (ft):	710
Bottom Geo Unit Below Surface (ft):	749	Geo Unit Thickness (ft):	39
Geo Unit Description:	CLAY ROCK		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	17	Top Geo Unit Below Surface (ft):	749
Bottom Geo Unit Below Surface (ft):	959	Geo Unit Thickness (ft):	210
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Record #:	18	Top Geo Unit Below Surface (ft):	959
Bottom Geo Unit Below Surface (ft):	960	Geo Unit Thickness (ft):	1
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19960119	Feet below Ground Surface:	-282.27
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19930113	Feet below Ground Surface:	-314.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19940105	Feet below Ground Surface:	-314.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19940112	Feet below Ground Surface:	-300.11
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19950119	Feet below Ground Surface:	-294.84
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19970123	Feet below Ground Surface:	-280.96
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**M69  
East  
1/2 - 1 Mile  
Lower**

**TX WELLS      TXHG60000000367**

Database:	Water Well Database	Well #:	1383
Permittee:	Houston, City of	Permit #:	214797
Start Date of Permit:	2/1/2021	Exp Date of Permit:	1/31/2022
Usage:	Public Supply	Active:	Active
Year Drilled:	1975	Diameter:	16
Depth (ft):	950	Depth to 1st Screen (ft):	710

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**70**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**TX WELLS      TXHG60000012846**

Database:	Water Well Database	Well #:	13945
Permittee:	Christ, The Incarnate Word Church		
Permit #:	208998	Start Date of Permit:	5/1/2020
Exp Date of Permit:	4/30/2021	Usage:	Other
Active:	Inactive	Year Drilled:	NULL
Diameter:	4	Depth (ft):	0
Depth to 1st Screen (ft):	0		

**N71**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000364058**

Database:	Submitted Drillers Reports Database		
Well Report #:	369543	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	25
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

**N72**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000364060**

Database:	Submitted Drillers Reports Database		
Well Report #:	369545	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

**N73**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000364059**

Database:	Submitted Drillers Reports Database		
Well Report #:	369544	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

**N74**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000364056**

Database:	Submitted Drillers Reports Database		
Well Report #:	369541	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	25
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**75**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000403268**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	409941	Borehole Depth (ft):	15
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	yes		

**O76**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000411640**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	419398	Borehole Depth (ft):	35
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**O77**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000411641**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	419397	Borehole Depth (ft):	35
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**O78**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000394249**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	400692	Borehole Depth (ft):	30
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	Not Reported		

**O79**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000386004**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	392097	Borehole Depth (ft):	30
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**O80**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000386070**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	392166	Borehole Depth (ft):	30
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	Not Reported		

**O81**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000386084**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	392180	Borehole Depth (ft):	55
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	Not Reported		

**O82**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000394250**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	400693	Borehole Depth (ft):	25
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	Not Reported		

**O83**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000386077**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	392173	Borehole Depth (ft):	25
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	Not Reported		

**O84**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000394252**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	400695	Borehole Depth (ft):	55
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**O85**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000394251**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	400694	Borehole Depth (ft):	25
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	Not Reported		

**O86**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000448417**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	460085	Borehole Depth (ft):	25
Proposed Use:	Injection	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**O87**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000448430**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	460090	Borehole Depth (ft):	25
Proposed Use:	Injection	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**O88**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000448423**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	460086	Borehole Depth (ft):	25
Proposed Use:	Injection	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

**O89**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXMON6000448428**

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	460088	Borehole Depth (ft):	25
Proposed Use:	Injection	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**P90**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**TX WELLS      TXHG6000000366**

Database:	Water Well Database	Well #:	1382
Permittee:	Houston, City of	Permit #:	42079
Start Date of Permit:	2/1/1993	Exp Date of Permit:	1/31/1994
Usage:	Public Supply	Active:	Inactive
Year Drilled:	1967	Diameter:	16
Depth (ft):	945	Depth to 1st Screen (ft):	710

**P91**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**TX WELLS      TXWDB8000082419**

Database:	Groundwater Database	Well #:	6520509
Primary Water Use:	Unused	Elevation (ft):	80
Well Depth (ft):	945	Observation Type:	Historical Observation Well
Water Quality Review:	Yes	Aquifer:	121EVGL - Evangeline Aquifer
Well Type:	Withdrawal of Water		

**P92**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**TX WELLS      TXEQ70000009002**

Database:	Public Water Supply Sources Databases		
PWS ID:	1010013	Water Source:	G1010013CZ
Locating Agency:	TNRCC	Elevation:	0

**Construction Information:**

Record #:	1	Well Interval:	ANNULAR CEMENT
Top Depth (ft):	0	Bottom Depth (ft):	695
Casing Above Surface:	Not Reported	Diameter (in):	0
Type of Well Opening:	Not Reported	Casing Material:	Not Reported
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	2	Well Interval:	OPENING INTERVAL
Top Depth (ft):	714	Bottom Depth (ft):	934
Casing Above Surface:	Not Reported	Diameter (in):	0
Type of Well Opening:	UNKNOWN	Casing Material:	Not Reported
Opening Material:	UNKNOWN	Opening Length (ft):	220
Opening Method:	Opening Interval = Top Of Shallowest Screen To Bottom Of Deepest Screen		
Packer Material:	Not Reported		

**Water Level Information:**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date Water Level Measure:	19870107	Feet below Ground Surface:	-426.0
Collecting Agency:	USGS	Collection Method:	REPORTED - METHOD NOT KNOWN
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19900123	Feet below Ground Surface:	-362.93
Collecting Agency:	USGS	Collection Method:	REPORTED - METHOD NOT KNOWN
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19670614	Feet below Ground Surface:	-172.0
Collecting Agency:	TWDB	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19860114	Feet below Ground Surface:	-422.0
Collecting Agency:	USGS	Collection Method:	REPORTED - METHOD NOT KNOWN
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19880106	Feet below Ground Surface:	-423.27
Collecting Agency:	USGS	Collection Method:	REPORTED - METHOD NOT KNOWN
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19890117	Feet below Ground Surface:	-346.0
Collecting Agency:	USGS	Collection Method:	REPORTED - METHOD NOT KNOWN
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19910114	Feet below Ground Surface:	-420.0
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19920115	Feet below Ground Surface:	-358.0
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19930111	Feet below Ground Surface:	-350.67
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

### Water Level Information:

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date Water Level Measure:	19940113	Feet below Ground Surface:	-346.17
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**P93  
ENE  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS40001165993**

Organization ID:	USGS-TX	Organization Name:	USGS Texas Water Science Center
Monitor Location:	LJ-65-20-509	Type:	Well
Description:	Not Reported	HUC:	12040104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Coastal lowlands aquifer system	Aquifer Type:	Not Reported
Formation Type:	Evangeline Aquifer	Well Depth:	945
Construction Date:	19670526	Well Hole Depth:	Not Reported
Well Depth Units:	ft		
Well Hole Depth Units:	Not Reported		

Ground water levels, Number of Measurements:	12	Level reading date:	1994-01-13
Feet below surface:	346.17	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1993-01-11	Feet below surface:	350.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-01-15	Feet below surface:	358
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1992-01-15	Feet below surface:	352.09
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1991-01-14	Feet below surface:	420
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-01-23	Feet below surface:	362.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-01-17	Feet below surface:	346
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1989-01-17	Feet below surface:	351.45
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1988-01-06	Feet below surface:	423.77
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1987-01-07	Feet below surface:	426
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-01-14	Feet below surface:	422
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-14	Feet below surface:	172
Feet to sea level:	Not Reported	Note:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**94**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXWDB8000076028**

Database:	Groundwater Database	Well #:	6520511
Primary Water Use:	Public Supply	Elevation (ft):	84
Well Depth (ft):	205	Observation Type:	None
Water Quality Review:	No	Aquifer:	112CHCTL - Chicot Aquifer, Lower
Well Type:	Withdrawal of Water		

**95**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**TX WELLS      TXWDB8000092010**

Database:	Groundwater Database	Well #:	6520403
Primary Water Use:	Domestic	Elevation (ft):	81
Well Depth (ft):	65	Observation Type:	Miscellaneous Measurements
Water Quality Review:	Yes	Aquifer:	112CHCTU - Chicot Aquifer, Upper
Well Type:	Withdrawal of Water		

**96**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXWDB8000082418**

Database:	Groundwater Database	Well #:	6520417
Primary Water Use:	Public Supply	Elevation (ft):	86
Well Depth (ft):	1012	Observation Type:	USGS Current Observation Well
Water Quality Review:	No	Aquifer:	121EVGL - Evangeline Aquifer
Well Type:	Withdrawal of Water		

**Q97**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXWDB8000077124**

Database:	Groundwater Database	Well #:	6520421
Primary Water Use:	Public Supply	Elevation (ft):	86
Well Depth (ft):	1684	Observation Type:	USGS Current Observation Well
Water Quality Review:	No	Aquifer:	121EVGL - Evangeline Aquifer
Well Type:	Withdrawal of Water		

**Q98**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXWDB8000085779**

Database:	Groundwater Database	Well #:	6520422
Primary Water Use:	Public Supply	Elevation (ft):	86
Well Depth (ft):	995	Observation Type:	USGS Current Observation Well



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Geologic Information:**

Record #:	5	Top Geo Unit Below Surface (ft):	200
Bottom Geo Unit Below Surface (ft):	313	Geo Unit Thickness (ft):	113
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	6	Top Geo Unit Below Surface (ft):	313
Bottom Geo Unit Below Surface (ft):	354	Geo Unit Thickness (ft):	41
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	7	Top Geo Unit Below Surface (ft):	354
Bottom Geo Unit Below Surface (ft):	450	Geo Unit Thickness (ft):	96
Geo Unit Description:	CLAY, SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	8	Top Geo Unit Below Surface (ft):	450
Bottom Geo Unit Below Surface (ft):	463	Geo Unit Thickness (ft):	13
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	9	Top Geo Unit Below Surface (ft):	463
Bottom Geo Unit Below Surface (ft):	480	Geo Unit Thickness (ft):	17
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	10	Top Geo Unit Below Surface (ft):	480
Bottom Geo Unit Below Surface (ft):	520	Geo Unit Thickness (ft):	40
Geo Unit Description:	SAND, ROCK BREAK		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	11	Top Geo Unit Below Surface (ft):	520
Bottom Geo Unit Below Surface (ft):	600	Geo Unit Thickness (ft):	80
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Geologic Information:**

Record #:	12	Top Geo Unit Below Surface (ft):	600
Bottom Geo Unit Below Surface (ft):	612	Geo Unit Thickness (ft):	12
Geo Unit Description:	SAND, CLAY STRIPS		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	13	Top Geo Unit Below Surface (ft):	612
Bottom Geo Unit Below Surface (ft):	660	Geo Unit Thickness (ft):	48
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	14	Top Geo Unit Below Surface (ft):	660
Bottom Geo Unit Below Surface (ft):	665	Geo Unit Thickness (ft):	5
Geo Unit Description:	SAND, ROCK BREAK		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	15	Top Geo Unit Below Surface (ft):	665
Bottom Geo Unit Below Surface (ft):	710	Geo Unit Thickness (ft):	45
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	16	Top Geo Unit Below Surface (ft):	710
Bottom Geo Unit Below Surface (ft):	805	Geo Unit Thickness (ft):	95
Geo Unit Description:	CLAY STRIPS AND SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	17	Top Geo Unit Below Surface (ft):	805
Bottom Geo Unit Below Surface (ft):	823	Geo Unit Thickness (ft):	18
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	18	Top Geo Unit Below Surface (ft):	823
Bottom Geo Unit Below Surface (ft):	1040	Geo Unit Thickness (ft):	217
Geo Unit Description:	SHALE, CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Record #:	19	Top Geo Unit Below Surface (ft):	1040
Bottom Geo Unit Below Surface (ft):	1118	Geo Unit Thickness (ft):	78
Geo Unit Description:	SHALE, ROCK		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	20	Top Geo Unit Below Surface (ft):	1118
Bottom Geo Unit Below Surface (ft):	1160	Geo Unit Thickness (ft):	42
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19781200	Feet below Ground Surface:	-269.0
Collecting Agency:	USGS		
Collection Method:	REPORTED - METHOD NOT KNOWN		
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19880106	Feet below Ground Surface:	-260.8
Collecting Agency:	USGS		
Collection Method:	REPORTED - METHOD NOT KNOWN		
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19870127	Feet below Ground Surface:	-262.31
Collecting Agency:	USGS		
Collection Method:	REPORTED - METHOD NOT KNOWN		
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19890117	Feet below Ground Surface:	-307.15
Collecting Agency:	USGS		
Collection Method:	REPORTED - METHOD NOT KNOWN		
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19900123	Feet below Ground Surface:	-293.76
Collecting Agency:	USGS		
Collection Method:	REPORTED - METHOD NOT KNOWN		
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19920114	Feet below Ground Surface:	-294.47
Collecting Agency:	USGS	Collection Method:	STEEL TAPE

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Remarks: Not Reported

**Water Level Information:**

Date Water Level Measure:	19930113	Feet below Ground Surface:	-291.03
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19940113	Feet below Ground Surface:	-315.34
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	04		

**Water Level Information:**

Date Water Level Measure:	19950113	Feet below Ground Surface:	-282.85
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19960123	Feet below Ground Surface:	-273.83
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19970123	Feet below Ground Surface:	-278.2
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**R100  
SSE  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS40001165828**

Organization ID:	USGS-TX	Organization Name:	USGS Texas Water Science Center
Monitor Location:	LJ-65-20-414	Type:	Well
Description:	lat/long updated with Garmin gps on 2/3/2010		
HUC:	12040104	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Coastal lowlands aquifer system
Formation Type:	Chicot and Evangeline Aquifers		
Aquifer Type:	Confined single aquifer	Construction Date:	197812
Well Depth:	1038	Well Depth Units:	ft
Well Hole Depth:	1160	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	29	Level reading date:	2005-02-04
Feet below surface:	272.20	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2004-11-05	Feet below surface:	303
Feet to sea level:	Not Reported	Note:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	2004-09-21	Feet below surface:	356
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2004-04-02	Feet below surface:	331
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2004-01-21	Feet below surface:	291
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-04	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-09-11	Feet below surface:	356
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2003-05-15	Feet below surface:	353
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2003-01-30	Feet below surface:	274.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-11-14	Feet below surface:	288.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-09-27	Feet below surface:	344
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2002-06-05	Feet below surface:	282.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-02-28	Feet below surface:	267.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-11-15	Feet below surface:	291.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-01-12	Feet below surface:	299.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-05	Feet below surface:	299.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-26	Feet below surface:	274.16
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1997-11-06	Feet below surface:	275.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-01-23	Feet below surface:	278.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-01-23	Feet below surface:	273.83
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1995-01-13	Feet below surface:	282.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-01-13	Feet below surface:	315.34
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1993-01-13	Feet below surface:	291.03
Feet to sea level:	Not Reported	Note:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1992-01-14	Feet below surface:	294.47
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1990-01-23	Feet below surface:	293.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-01-17	Feet below surface:	307.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-01-06	Feet below surface:	260.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-01-27	Feet below surface:	262.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12	Feet below surface:	269
Feet to sea level:	Not Reported	Note:	Not Reported

**R101  
SSE  
1/2 - 1 Mile  
Lower**

**TX WELLS      TXHG6000002247**

Database:	Water Well Database	Well #:	3272
Permittee:	Houston, City of	Permit #:	214880
Start Date of Permit:	2/1/2021	Exp Date of Permit:	1/31/2022
Usage:	Public Supply	Active:	Active
Year Drilled:	1990	Diameter:	16
Depth (ft):	1500	Depth to 1st Screen (ft):	0

**Q102  
WNW  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS40001166032**

Organization ID:	USGS-TX	Organization Name:	USGS Texas Water Science Center
Monitor Location:	LJ-65-20-421	Type:	Well
Description:	Not Reported	HUC:	12040104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Coastal lowlands aquifer system	Aquifer Type:	Confined single aquifer
Formation Type:	Evangeline Aquifer	Well Depth:	1667
Construction Date:	Not Reported	Well Hole Depth:	Not Reported
Well Depth Units:	ft		
Well Hole Depth Units:	Not Reported		

Ground water levels, Number of Measurements:	17	Level reading date:	2004-11-12
Feet below surface:	324.22	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2004-09-01	Feet below surface:	390
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2004-04-02	Feet below surface:	384
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2004-01-23	Feet below surface:	348
Feet to sea level:	Not Reported	Note:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	2003-10-30	Feet below surface:	364
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-09-11	Feet below surface:	422
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2003-04-09	Feet below surface:	386
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2003-02-02	Feet below surface:	349.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-11-12	Feet below surface:	357
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-09-10	Feet below surface:	413
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2002-05-31	Feet below surface:	334.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-02-26	Feet below surface:	331.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-09-19	Feet below surface:	424
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2001-04-25	Feet below surface:	442
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2001-01-04	Feet below surface:	394.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-05	Feet below surface:	403
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-06	Feet below surface:	456
Feet to sea level:	Not Reported	Note:	The site was being pumped.

**Q103  
WNW  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS40001166033**

Organization ID:	USGS-TX	Organization Name:	USGS Texas Water Science Center
Monitor Location:	LJ-65-20-422	Type:	Well
Description:	Not Reported	HUC:	12040104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Coastal lowlands aquifer system		
Formation Type:	Chicot and Evangeline Aquifers		
Aquifer Type:	Confined single aquifer	Construction Date:	19980227
Well Depth:	995	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels,Number of Measurements:	18	Level reading date:	2005-01-24
Feet below surface:	330.63	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2004-09-10	Feet below surface:	347

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2004-04-02	Feet below surface:	336
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2004-01-23	Feet below surface:	286
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-10-30	Feet below surface:	298
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-09-11	Feet below surface:	360
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2003-04-09	Feet below surface:	327
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2003-02-07	Feet below surface:	286.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-11-12	Feet below surface:	285
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-09-26	Feet below surface:	347
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2002-05-31	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-04-29	Feet below surface:	335
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2002-02-26	Feet below surface:	275.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-09-19	Feet below surface:	368
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2001-04-25	Feet below surface:	392
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2001-01-04	Feet below surface:	334.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-05	Feet below surface:	342
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-06	Feet below surface:	398
Feet to sea level:	Not Reported	Note:	The site was being pumped.

**104  
SSE  
1/2 - 1 Mile  
Higher**

**TX WELLS TXWDB8000077441**

Database: Groundwater Database  
 Primary Water Use: Public Supply  
 Well Depth (ft): 1038  
 Water Quality Review: No  
 Well Type: Withdrawal of Water

Well #: 6520414  
 Elevation (ft): 86  
 Observation Type: USGS Current Observation Well  
 Aquifer: 121EVGL - Evangeline Aquifer

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**S105**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXEQ70000009038**

Database:	Public Water Supply Sources Databases	Water Source:	G1010013EI
PWS ID:	1010013	Elevation:	85
Locating Agency:	TCEQ		

**Construction Information:**

Record #:	1	Well Interval:	ANNULAR CEMENT
Top Depth (ft):	0	Bottom Depth (ft):	600
Casing Above Surface:	Not Reported	Diameter (in):	0
Type of Well Opening:	Not Reported	Casing Material:	Not Reported
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	2	Well Interval:	OPENING INTERVAL
Top Depth (ft):	610	Bottom Depth (ft):	985
Casing Above Surface:	Not Reported	Diameter (in):	0
Type of Well Opening:	UNKNOWN	Casing Material:	Not Reported
Opening Material:	UNKNOWN	Opening Length (ft):	375
Opening Method:	Opening Interval = Top Of Shallowest Screen To Bottom Of Deepest Screen		
Packer Material:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19940104	Feet below Ground Surface:	-277.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19910114	Feet below Ground Surface:	-295.0
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19920115	Feet below Ground Surface:	-345.26
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19930113	Feet below Ground Surface:	-283.64
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date Water Level Measure:	19950113	Feet below Ground Surface:	-277.01
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19960117	Feet below Ground Surface:	-264.74
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19960926	Feet below Ground Surface:	-334.0
Collecting Agency:	USGS	Collection Method:	ELECTRIC TAPE
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19970127	Feet below Ground Surface:	-262.37
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	Not Reported		

**S106  
WSW  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS40001165882**

Organization ID:	USGS-TX	Organization Name:	USGS Texas Water Science Center
Monitor Location:	LJ-65-20-412	Type:	Well
Description:	Not Reported	HUC:	12040104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Coastal lowlands aquifer system		
Formation Type:	Chicot and Evangeline Aquifers	Construction Date:	19731127
Aquifer Type:	Confined multiple aquifer	Well Depth Units:	ft
Well Depth:	1000	Well Hole Depth Units:	ft
Well Hole Depth:	1000		

Ground water levels,Number of Measurements:	38	Level reading date:	2005-02-15
Feet below surface:	278.59	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2004-11-05	Feet below surface:	285
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2004-09-21	Feet below surface:	342
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	2004-04-07	Feet below surface:	324
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	2004-01-22	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2003-10-31	Feet below surface:	288
Feet to sea level:	Not Reported	Note:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	2003-04-11	Feet below surface:	333
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2003-01-31	Feet below surface:	261.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-11-14	Feet below surface:	279
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-09-27	Feet below surface:	333
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2002-06-04	Feet below surface:	268
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-05-13	Feet below surface:	331
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2002-02-27	Feet below surface:	258.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-09-21	Feet below surface:	333
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2001-04-27	Feet below surface:	350
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2001-01-12	Feet below surface:	296.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-05	Feet below surface:	299
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-04	Feet below surface:	363
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1998-05-21	Feet below surface:	330
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1998-01-27	Feet below surface:	260.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-27	Feet below surface:	260
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-11-05	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-09-11	Feet below surface:	336
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1997-05-02	Feet below surface:	315
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1997-01-27	Feet below surface:	262.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-09-26	Feet below surface:	334
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1996-01-17	Feet below surface:	268
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1996-01-17	Feet below surface:	264.74
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1995-01-13	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-01-13	Feet below surface:	277.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-01-04	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-01-13	Feet below surface:	283.64
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1993-01-13	Feet below surface:	281
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1992-01-15	Feet below surface:	345.26
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1991-01-14	Feet below surface:	295
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1990-01-19	Feet below surface:	293
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1990-01-19	Feet below surface:	290.77
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1973-12-28	Feet below surface:	197
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.

**S107**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS TXHG6000000359**

Database:	Water Well Database	Well #:	1375
Permittee:	Houston, City of	Permit #:	214796
Start Date of Permit:	2/1/2021	Exp Date of Permit:	1/31/2022
Usage:	Public Supply	Active:	Active
Year Drilled:	1990	Diameter:	16
Depth (ft):	1000	Depth to 1st Screen (ft):	610

**S108**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS TXWDB8000076448**

Database:	Groundwater Database	Well #:	6520412
Primary Water Use:	Public Supply	Elevation (ft):	85
Well Depth (ft):	1000	Observation Type:	USGS Current Observation Well
Water Quality Review:	Yes	Aquifer:	112CEVG - Chicot and Evangeline Aquifers
Well Type:	Withdrawal of Water		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**T109**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**TX WELLS      TXPLU6000174435**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	479475	Plugging Rpt #:	177632
Well Type:	Monitor	Borehole Depth (ft):	35

**T110**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**TX WELLS      TXMON6000466844**

Database:	Submitted Drillers Reports Database		
Well Report #:	479475	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	35
Injurious Water Quality:	no	Plugging Rpt #:	177632

**Q111**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXHG60000005042**

Database:	Water Well Database	Well #:	6076
Permittee:	Houston, City of	Permit #:	215025
Start Date of Permit:	2/1/2021	Exp Date of Permit:	1/31/2022
Usage:	Public Supply	Active:	Active
Year Drilled:	1976	Diameter:	14
Depth (ft):	1020	Depth to 1st Screen (ft):	650

**Q112**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXEQ70000009386**

Database:	Public Water Supply Sources Databases		
PWS ID:	1010013	Water Source:	G1010013RO
Locating Agency:	TCEQ	Elevation:	84

**Construction Information:**

Record #:	1	Well Interval:	ANNULAR CEMENT
Top Depth (ft):	0	Bottom Depth (ft):	39
Casing Above Surface:	Not Reported	Diameter (in):	42
Type of Well Opening:	Not Reported	Casing Material:	Not Reported
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	2	Well Interval:	CASING
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## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Top Depth (ft):	0	Bottom Depth (ft):	50
Casing Above Surface:	Not Reported	Diameter (in):	36
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	3	Well Interval:	ANNULAR CEMENT
Top Depth (ft):	0	Bottom Depth (ft):	650
Casing Above Surface:	Not Reported	Diameter (in):	30
Type of Well Opening:	Not Reported	Casing Material:	Not Reported
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	4	Well Interval:	CASING
Top Depth (ft):	3	Bottom Depth (ft):	650
Casing Above Surface:	+	Diameter (in):	24
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	5	Well Interval:	CASING
Top Depth (ft):	590	Bottom Depth (ft):	660
Casing Above Surface:	Not Reported	Diameter (in):	18
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	6	Well Interval:	WELL OPENINGS
Top Depth (ft):	660	Bottom Depth (ft):	691
Casing Above Surface:	Not Reported	Diameter (in):	18
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	31		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	7	Well Interval:	CASING
Top Depth (ft):	691	Bottom Depth (ft):	718
Casing Above Surface:	Not Reported	Diameter (in):	18
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	8	Well Interval:	WELL OPENINGS
Top Depth (ft):	718	Bottom Depth (ft):	743

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Above Surface:	Not Reported	Diameter (in):	18
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	25		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	9	Well Interval:	CASING
Top Depth (ft):	743	Bottom Depth (ft):	776
Casing Above Surface:	Not Reported	Diameter (in):	18
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	10	Well Interval:	WELL OPENINGS
Top Depth (ft):	776	Bottom Depth (ft):	846
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	70		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	11	Well Interval:	CASING
Top Depth (ft):	846	Bottom Depth (ft):	852
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	12	Well Interval:	WELL OPENINGS
Top Depth (ft):	852	Bottom Depth (ft):	906
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	54		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	13	Well Interval:	CASING
Top Depth (ft):	906	Bottom Depth (ft):	930
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	14	Well Interval:	WELL OPENINGS
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## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Top Depth (ft):	930	Bottom Depth (ft):	940
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN		
Casing Material:	Not Reported	Opening Material:	STAINLESS STEEL
Opening Length (ft):	10	Opening Method:	Not Reported
Packer Material:	Not Reported		

**Construction Information:**

Record #:	15	Well Interval:	CASING
Top Depth (ft):	940	Bottom Depth (ft):	954
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	16	Well Interval:	WELL OPENINGS
Top Depth (ft):	954	Bottom Depth (ft):	968
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN		
Casing Material:	Not Reported	Opening Material:	STAINLESS STEEL
Opening Length (ft):	14	Opening Method:	Not Reported
Packer Material:	Not Reported		

**Construction Information:**

Record #:	17	Well Interval:	CASING
Top Depth (ft):	968	Bottom Depth (ft):	995
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	18	Well Interval:	ANNULAR GRAVEL PACK
Top Depth (ft):	600	Bottom Depth (ft):	995
Casing Above Surface:	Not Reported	Diameter (in):	32
Type of Well Opening:	Not Reported	Casing Material:	Not Reported
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Geologic Information:**

Record #:	1	Top Geo Unit Below Surface (ft):	0
Bottom Geo Unit Below Surface (ft):	57	Geo Unit Thickness (ft):	57
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	2	Top Geo Unit Below Surface (ft):	57
Bottom Geo Unit Below Surface (ft):	120	Geo Unit Thickness (ft):	63



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom Geo Unit Below Surface (ft):	400	Geo Unit Thickness (ft):	2
Geo Unit Description:	ROCK		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	10	Top Geo Unit Below Surface (ft):	400
Bottom Geo Unit Below Surface (ft):	408	Geo Unit Thickness (ft):	8
Geo Unit Description:	HARD SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	11	Top Geo Unit Below Surface (ft):	408
Bottom Geo Unit Below Surface (ft):	432	Geo Unit Thickness (ft):	24
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	12	Top Geo Unit Below Surface (ft):	432
Bottom Geo Unit Below Surface (ft):	440	Geo Unit Thickness (ft):	8
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	13	Top Geo Unit Below Surface (ft):	440
Bottom Geo Unit Below Surface (ft):	505	Geo Unit Thickness (ft):	65
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	14	Top Geo Unit Below Surface (ft):	505
Bottom Geo Unit Below Surface (ft):	513	Geo Unit Thickness (ft):	8
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	15	Top Geo Unit Below Surface (ft):	513
Bottom Geo Unit Below Surface (ft):	552	Geo Unit Thickness (ft):	39
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Record #:	16	Top Geo Unit Below Surface (ft):	552
Bottom Geo Unit Below Surface (ft):	558	Geo Unit Thickness (ft):	6
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	17	Top Geo Unit Below Surface (ft):	558
Bottom Geo Unit Below Surface (ft):	602	Geo Unit Thickness (ft):	44
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	18	Top Geo Unit Below Surface (ft):	602
Bottom Geo Unit Below Surface (ft):	608	Geo Unit Thickness (ft):	6
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	19	Top Geo Unit Below Surface (ft):	608
Bottom Geo Unit Below Surface (ft):	626	Geo Unit Thickness (ft):	18
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	20	Top Geo Unit Below Surface (ft):	626
Bottom Geo Unit Below Surface (ft):	660	Geo Unit Thickness (ft):	34
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	21	Top Geo Unit Below Surface (ft):	660
Bottom Geo Unit Below Surface (ft):	704	Geo Unit Thickness (ft):	44
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	22	Top Geo Unit Below Surface (ft):	704
Bottom Geo Unit Below Surface (ft):	716	Geo Unit Thickness (ft):	12
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Record #:	23	Top Geo Unit Below Surface (ft):	716
Bottom Geo Unit Below Surface (ft):	742	Geo Unit Thickness (ft):	26
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	24	Top Geo Unit Below Surface (ft):	742
Bottom Geo Unit Below Surface (ft):	768	Geo Unit Thickness (ft):	26
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	25	Top Geo Unit Below Surface (ft):	768
Bottom Geo Unit Below Surface (ft):	940	Geo Unit Thickness (ft):	172
Geo Unit Description:	SAND W/ SMALL HARD		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	26	Top Geo Unit Below Surface (ft):	940
Bottom Geo Unit Below Surface (ft):	950	Geo Unit Thickness (ft):	10
Geo Unit Description:	HARD SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	27	Top Geo Unit Below Surface (ft):	950
Bottom Geo Unit Below Surface (ft):	972	Geo Unit Thickness (ft):	22
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	28	Top Geo Unit Below Surface (ft):	972
Bottom Geo Unit Below Surface (ft):	1056	Geo Unit Thickness (ft):	84
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Water Level Information:**

Date Water Level Measure:	19980216	Feet below Ground Surface:	-277
Collecting Agency:	DRILL		
Collection Method:	REPORTED - METHOD NOT KNOWN		
Remarks:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**U113**  
**NE**  
 1/2 - 1 Mile  
 Lower

**TX WELLS      TXPLU6000153535**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	415483	Plugging Rpt #:	155834
Well Type:	Monitor	Borehole Depth (ft):	17

**U114**  
**NE**  
 1/2 - 1 Mile  
 Lower

**TX WELLS      TXMON6000408690**

Database:	Submitted Drillers Reports Database		
Well Report #:	415483	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	17
Injurious Water Quality:	no	Plugging Rpt #:	155834

**Q115**  
**WNW**  
 1/2 - 1 Mile  
 Higher

**TX WELLS      TXEQ7000009385**

Database:	Public Water Supply Sources Databases		
PWS ID:	1010013	Water Source:	G1010013RN
Locating Agency:	TCEQ	Elevation:	84

**Construction Information:**

Record #:	1	Well Interval:	ANNULAR CEMENT
Top Depth (ft):	0	Bottom Depth (ft):	50
Casing Above Surface:	Not Reported	Diameter (in):	36
Type of Well Opening:	Not Reported	Casing Material:	Not Reported
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	2	Well Interval:	CASING
Top Depth (ft):	0	Bottom Depth (ft):	50
Casing Above Surface:	Not Reported	Diameter (in):	30
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	3	Well Interval:	ANNULAR CEMENT
Top Depth (ft):	0	Bottom Depth (ft):	1070
Casing Above Surface:	Not Reported	Diameter (in):	26
Type of Well Opening:	Not Reported	Casing Material:	Not Reported
Opening Material:	Not Reported	Opening Length (ft):	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Opening Method: Not Reported      Packer Material: Not Reported

**Construction Information:**

Record #:	4	Well Interval:	CASING
Top Depth (ft):	3	Bottom Depth (ft):	1070
Casing Above Surface:	+	Diameter (in):	20
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	5	Well Interval:	CASING
Top Depth (ft):	1010	Bottom Depth (ft):	1081
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	6	Well Interval:	WELL OPENINGS
Top Depth (ft):	1081	Bottom Depth (ft):	1114
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	7	Well Interval:	CASING
Top Depth (ft):	1114	Bottom Depth (ft):	1138
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	8	Well Interval:	WELL OPENINGS
Top Depth (ft):	1138	Bottom Depth (ft):	1144
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	9	Well Interval:	CASING
Top Depth (ft):	1144	Bottom Depth (ft):	1168
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Opening Method: Not Reported      Packer Material: Not Reported

**Construction Information:**

Record #:	10	Well Interval:	WELL OPENINGS
Top Depth (ft):	1168	Bottom Depth (ft):	1174
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	11	Well Interval:	CASING
Top Depth (ft):	1174	Bottom Depth (ft):	1198
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	12	Well Interval:	WELL OPENINGS
Top Depth (ft):	1198	Bottom Depth (ft):	1204
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	13	Well Interval:	CASING
Top Depth (ft):	1204	Bottom Depth (ft):	1230
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	14	Well Interval:	WELL OPENINGS
Top Depth (ft):	1230	Bottom Depth (ft):	1274
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	15	Well Interval:	CASING
Top Depth (ft):	1274	Bottom Depth (ft):	1296
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	16	Well Interval:	WELL OPENINGS
Top Depth (ft):	1296	Bottom Depth (ft):	1304
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	17	Well Interval:	CASING
Top Depth (ft):	1304	Bottom Depth (ft):	1330
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	18	Well Interval:	WELL OPENINGS
Top Depth (ft):	1330	Bottom Depth (ft):	1342
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	19	Well Interval:	CASING
Top Depth (ft):	1342	Bottom Depth (ft):	1346
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	20	Well Interval:	WELL OPENINGS
Top Depth (ft):	1346	Bottom Depth (ft):	1378
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	21	Well Interval:	CASING
Top Depth (ft):	1378	Bottom Depth (ft):	1402
Casing Above Surface:	Not Reported	Diameter (in):	14

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	22	Well Interval:	WELL OPENINGS
Top Depth (ft):	1402	Bottom Depth (ft):	1408
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	23	Well Interval:	CASING
Top Depth (ft):	1408	Bottom Depth (ft):	1432
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	24	Well Interval:	WELL OPENINGS
Top Depth (ft):	1432	Bottom Depth (ft):	1488
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	25	Well Interval:	CASING
Top Depth (ft):	1488	Bottom Depth (ft):	1516
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	26	Well Interval:	WELL OPENINGS
Top Depth (ft):	1516	Bottom Depth (ft):	1522
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	27	Well Interval:	CASING
Top Depth (ft):	1522	Bottom Depth (ft):	1554

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	28	Well Interval:	WELL OPENINGS
Top Depth (ft):	1554	Bottom Depth (ft):	1560
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	29	Well Interval:	CASING
Top Depth (ft):	1560	Bottom Depth (ft):	1586
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	30	Well Interval:	WELL OPENINGS
Top Depth (ft):	1586	Bottom Depth (ft):	1602
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	31	Well Interval:	CASING
Top Depth (ft):	1602	Bottom Depth (ft):	1618
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	32	Well Interval:	WELL OPENINGS
Top Depth (ft):	1618	Bottom Depth (ft):	1642
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	WIRE-WOUND SCREEN	Opening Material:	STAINLESS STEEL
Casing Material:	Not Reported	Opening Method:	Not Reported
Opening Length (ft):	Not Reported		
Packer Material:	Not Reported		

**Construction Information:**

Record #:	33	Well Interval:	CASING
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## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Top Depth (ft):	1642	Bottom Depth (ft):	1667
Casing Above Surface:	Not Reported	Diameter (in):	14
Type of Well Opening:	Not Reported	Casing Material:	STEEL
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Construction Information:**

Record #:	34	Well Interval:	ANNULAR GRAVEL PACK
Top Depth (ft):	1070	Bottom Depth (ft):	1684
Casing Above Surface:	Not Reported	Diameter (in):	32
Type of Well Opening:	Not Reported	Casing Material:	Not Reported
Opening Material:	Not Reported	Opening Length (ft):	Not Reported
Opening Method:	Not Reported	Packer Material:	Not Reported

**Geologic Information:**

Record #:	1	Top Geo Unit Below Surface (ft):	0
Bottom Geo Unit Below Surface (ft):	61	Geo Unit Thickness (ft):	61
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	2	Top Geo Unit Below Surface (ft):	61
Bottom Geo Unit Below Surface (ft):	68	Geo Unit Thickness (ft):	7
Geo Unit Description:	SANDY CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	3	Top Geo Unit Below Surface (ft):	68
Bottom Geo Unit Below Surface (ft):	90	Geo Unit Thickness (ft):	22
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	4	Top Geo Unit Below Surface (ft):	90
Bottom Geo Unit Below Surface (ft):	120	Geo Unit Thickness (ft):	30
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	5	Top Geo Unit Below Surface (ft):	120
Bottom Geo Unit Below Surface (ft):	132	Geo Unit Thickness (ft):	12
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Geologic Information:**

Record #:	6	Top Geo Unit Below Surface (ft):	132
Bottom Geo Unit Below Surface (ft):	229	Geo Unit Thickness (ft):	97
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	7	Top Geo Unit Below Surface (ft):	229
Bottom Geo Unit Below Surface (ft):	266	Geo Unit Thickness (ft):	37
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	8	Top Geo Unit Below Surface (ft):	266
Bottom Geo Unit Below Surface (ft):	324	Geo Unit Thickness (ft):	58
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	9	Top Geo Unit Below Surface (ft):	324
Bottom Geo Unit Below Surface (ft):	351	Geo Unit Thickness (ft):	27
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	10	Top Geo Unit Below Surface (ft):	351
Bottom Geo Unit Below Surface (ft):	403	Geo Unit Thickness (ft):	52
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	11	Top Geo Unit Below Surface (ft):	403
Bottom Geo Unit Below Surface (ft):	421	Geo Unit Thickness (ft):	18
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	12	Top Geo Unit Below Surface (ft):	421
Bottom Geo Unit Below Surface (ft):	427	Geo Unit Thickness (ft):	6
Geo Unit Description:	SAND, CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Geologic Information:**

Record #:	13	Top Geo Unit Below Surface (ft):	427
Bottom Geo Unit Below Surface (ft):	440	Geo Unit Thickness (ft):	13
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	14	Top Geo Unit Below Surface (ft):	440
Bottom Geo Unit Below Surface (ft):	505	Geo Unit Thickness (ft):	65
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	15	Top Geo Unit Below Surface (ft):	505
Bottom Geo Unit Below Surface (ft):	513	Geo Unit Thickness (ft):	8
Geo Unit Description:	SAND, CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	16	Top Geo Unit Below Surface (ft):	513
Bottom Geo Unit Below Surface (ft):	560	Geo Unit Thickness (ft):	47
Geo Unit Description:	HARD SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	17	Top Geo Unit Below Surface (ft):	560
Bottom Geo Unit Below Surface (ft):	609	Geo Unit Thickness (ft):	49
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	18	Top Geo Unit Below Surface (ft):	609
Bottom Geo Unit Below Surface (ft):	627	Geo Unit Thickness (ft):	18
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	19	Top Geo Unit Below Surface (ft):	627
Bottom Geo Unit Below Surface (ft):	666	Geo Unit Thickness (ft):	39
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Geologic Information:**

Record #:	20	Top Geo Unit Below Surface (ft):	666
Bottom Geo Unit Below Surface (ft):	695	Geo Unit Thickness (ft):	29
Geo Unit Description:	HARD SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	21	Top Geo Unit Below Surface (ft):	695
Bottom Geo Unit Below Surface (ft):	696	Geo Unit Thickness (ft):	1
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	22	Top Geo Unit Below Surface (ft):	696
Bottom Geo Unit Below Surface (ft):	711	Geo Unit Thickness (ft):	15
Geo Unit Description:	SANDY SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	23	Top Geo Unit Below Surface (ft):	711
Bottom Geo Unit Below Surface (ft):	722	Geo Unit Thickness (ft):	11
Geo Unit Description:	SAND, GRAVEL		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	24	Top Geo Unit Below Surface (ft):	722
Bottom Geo Unit Below Surface (ft):	747	Geo Unit Thickness (ft):	25
Geo Unit Description:	HARD SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	25	Top Geo Unit Below Surface (ft):	747
Bottom Geo Unit Below Surface (ft):	748	Geo Unit Thickness (ft):	1
Geo Unit Description:	SAND W/ SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	26	Top Geo Unit Below Surface (ft):	748
Bottom Geo Unit Below Surface (ft):	763	Geo Unit Thickness (ft):	15
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Record #:	27	Top Geo Unit Below Surface (ft):	763
Bottom Geo Unit Below Surface (ft):	768	Geo Unit Thickness (ft):	5
Geo Unit Description:	SANDY CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	28	Top Geo Unit Below Surface (ft):	768
Bottom Geo Unit Below Surface (ft):	784	Geo Unit Thickness (ft):	16
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	29	Top Geo Unit Below Surface (ft):	784
Bottom Geo Unit Below Surface (ft):	786	Geo Unit Thickness (ft):	2
Geo Unit Description:	SAND, GRAVEL		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	30	Top Geo Unit Below Surface (ft):	786
Bottom Geo Unit Below Surface (ft):	913	Geo Unit Thickness (ft):	127
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	31	Top Geo Unit Below Surface (ft):	913
Bottom Geo Unit Below Surface (ft):	925	Geo Unit Thickness (ft):	12
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	32	Top Geo Unit Below Surface (ft):	925
Bottom Geo Unit Below Surface (ft):	955	Geo Unit Thickness (ft):	30
Geo Unit Description:	SANDY SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	33	Top Geo Unit Below Surface (ft):	955
Bottom Geo Unit Below Surface (ft):	961	Geo Unit Thickness (ft):	6
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Geologic Information:**

Record #:	34	Top Geo Unit Below Surface (ft):	961
Bottom Geo Unit Below Surface (ft):	974	Geo Unit Thickness (ft):	13
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	35	Top Geo Unit Below Surface (ft):	974
Bottom Geo Unit Below Surface (ft):	1006	Geo Unit Thickness (ft):	32
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	36	Top Geo Unit Below Surface (ft):	1006
Bottom Geo Unit Below Surface (ft):	1012	Geo Unit Thickness (ft):	6
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	37	Top Geo Unit Below Surface (ft):	1012
Bottom Geo Unit Below Surface (ft):	1061	Geo Unit Thickness (ft):	49
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	38	Top Geo Unit Below Surface (ft):	1061
Bottom Geo Unit Below Surface (ft):	1075	Geo Unit Thickness (ft):	14
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	39	Top Geo Unit Below Surface (ft):	1075
Bottom Geo Unit Below Surface (ft):	1082	Geo Unit Thickness (ft):	7
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	40	Top Geo Unit Below Surface (ft):	1082
Bottom Geo Unit Below Surface (ft):	1119	Geo Unit Thickness (ft):	37
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Geologic Information:**

Record #:	41	Top Geo Unit Below Surface (ft):	1119
Bottom Geo Unit Below Surface (ft):	1209	Geo Unit Thickness (ft):	90
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	42	Top Geo Unit Below Surface (ft):	1209
Bottom Geo Unit Below Surface (ft):	1219	Geo Unit Thickness (ft):	10
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	43	Top Geo Unit Below Surface (ft):	1219
Bottom Geo Unit Below Surface (ft):	1232	Geo Unit Thickness (ft):	13
Geo Unit Description:	SAND W/ SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	44	Top Geo Unit Below Surface (ft):	1232
Bottom Geo Unit Below Surface (ft):	1284	Geo Unit Thickness (ft):	52
Geo Unit Description:	SANDY SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	45	Top Geo Unit Below Surface (ft):	1284
Bottom Geo Unit Below Surface (ft):	1291	Geo Unit Thickness (ft):	7
Geo Unit Description:	HARD SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	46	Top Geo Unit Below Surface (ft):	1291
Bottom Geo Unit Below Surface (ft):	1299	Geo Unit Thickness (ft):	8
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	47	Top Geo Unit Below Surface (ft):	1299
Bottom Geo Unit Below Surface (ft):	1327	Geo Unit Thickness (ft):	28
Geo Unit Description:	SAND (CUT GOOD)		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Geologic Information:**

Record #:	48	Top Geo Unit Below Surface (ft):	1327
Bottom Geo Unit Below Surface (ft):	1399	Geo Unit Thickness (ft):	72
Geo Unit Description:	CLAY		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	49	Top Geo Unit Below Surface (ft):	1399
Bottom Geo Unit Below Surface (ft):	1411	Geo Unit Thickness (ft):	12
Geo Unit Description:	SANDY SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	50	Top Geo Unit Below Surface (ft):	1411
Bottom Geo Unit Below Surface (ft):	1423	Geo Unit Thickness (ft):	12
Geo Unit Description:	HARD SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	51	Top Geo Unit Below Surface (ft):	1423
Bottom Geo Unit Below Surface (ft):	1428	Geo Unit Thickness (ft):	5
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	52	Top Geo Unit Below Surface (ft):	1428
Bottom Geo Unit Below Surface (ft):	1502	Geo Unit Thickness (ft):	74
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	53	Top Geo Unit Below Surface (ft):	1502
Bottom Geo Unit Below Surface (ft):	1528	Geo Unit Thickness (ft):	26
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	54	Top Geo Unit Below Surface (ft):	1528
Bottom Geo Unit Below Surface (ft):	1534	Geo Unit Thickness (ft):	6
Geo Unit Description:	HARD SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Geologic Information:**

Record #:	55	Top Geo Unit Below Surface (ft):	1534
Bottom Geo Unit Below Surface (ft):	1535	Geo Unit Thickness (ft):	1
Geo Unit Description:	SANDY SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	56	Top Geo Unit Below Surface (ft):	1535
Bottom Geo Unit Below Surface (ft):	1553	Geo Unit Thickness (ft):	18
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	57	Top Geo Unit Below Surface (ft):	1553
Bottom Geo Unit Below Surface (ft):	1595	Geo Unit Thickness (ft):	42
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	58	Top Geo Unit Below Surface (ft):	1595
Bottom Geo Unit Below Surface (ft):	1612	Geo Unit Thickness (ft):	17
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	59	Top Geo Unit Below Surface (ft):	1612
Bottom Geo Unit Below Surface (ft):	1628	Geo Unit Thickness (ft):	16
Geo Unit Description:	SANDY SHALE, SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	60	Top Geo Unit Below Surface (ft):	1628
Bottom Geo Unit Below Surface (ft):	1723	Geo Unit Thickness (ft):	95
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	61	Top Geo Unit Below Surface (ft):	1723
Bottom Geo Unit Below Surface (ft):	1729	Geo Unit Thickness (ft):	6
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Geologic Information:**

Record #:	62	Top Geo Unit Below Surface (ft):	1729
Bottom Geo Unit Below Surface (ft):	1745	Geo Unit Thickness (ft):	16
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	63	Top Geo Unit Below Surface (ft):	1745
Bottom Geo Unit Below Surface (ft):	1754	Geo Unit Thickness (ft):	9
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	64	Top Geo Unit Below Surface (ft):	1754
Bottom Geo Unit Below Surface (ft):	1783	Geo Unit Thickness (ft):	29
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	65	Top Geo Unit Below Surface (ft):	1783
Bottom Geo Unit Below Surface (ft):	1801	Geo Unit Thickness (ft):	18
Geo Unit Description:	HARD SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	66	Top Geo Unit Below Surface (ft):	1801
Bottom Geo Unit Below Surface (ft):	1804	Geo Unit Thickness (ft):	3
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	67	Top Geo Unit Below Surface (ft):	1804
Bottom Geo Unit Below Surface (ft):	1845	Geo Unit Thickness (ft):	41
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

**Geologic Information:**

Record #:	68	Top Geo Unit Below Surface (ft):	1845
Bottom Geo Unit Below Surface (ft):	1860	Geo Unit Thickness (ft):	15
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Geologic Information:

Record #:	69	Top Geo Unit Below Surface (ft):	1860
Bottom Geo Unit Below Surface (ft):	1865	Geo Unit Thickness (ft):	5
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	70	Top Geo Unit Below Surface (ft):	1865
Bottom Geo Unit Below Surface (ft):	1870	Geo Unit Thickness (ft):	5
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	71	Top Geo Unit Below Surface (ft):	1870
Bottom Geo Unit Below Surface (ft):	1888	Geo Unit Thickness (ft):	18
Geo Unit Description:	SHALE		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	72	Top Geo Unit Below Surface (ft):	1888
Bottom Geo Unit Below Surface (ft):	1893	Geo Unit Thickness (ft):	5
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	73	Top Geo Unit Below Surface (ft):	1893
Bottom Geo Unit Below Surface (ft):	1919	Geo Unit Thickness (ft):	26
Geo Unit Description:	ROCK		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Geologic Information:

Record #:	74	Top Geo Unit Below Surface (ft):	1919
Bottom Geo Unit Below Surface (ft):	1927	Geo Unit Thickness (ft):	8
Geo Unit Description:	SAND		
Source of Geo Data:	DRILLERS DESCRIPTION OF FORMATION GEOLOGY		
Remarks:	Not Reported		

### Water Level Information:

Date Water Level Measure:	19730425	Feet below Ground Surface:	-287
Collecting Agency:	DRILL		
Collection Method:	REPORTED - METHOD NOT KNOWN		
Remarks:	FORMERLY G1011591A		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Water Level Information:

Date Water Level Measure:	19940105	Feet below Ground Surface:	-335.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	FORMERLY G1011591A		

### Water Level Information:

Date Water Level Measure:	19860116	Feet below Ground Surface:	-336
Collecting Agency:	DRILL		
Collection Method:	REPORTED - METHOD NOT KNOWN		
Remarks:	FORMERLY G1011591A		

### Water Level Information:

Date Water Level Measure:	19910126	Feet below Ground Surface:	-354.0
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	FORMERLY G1011591A		

### Water Level Information:

Date Water Level Measure:	19920115	Feet below Ground Surface:	-340.0
Collecting Agency:	USGS	Collection Method:	STEEL TAPE
Remarks:	FORMERLY G1011591A		

### Water Level Information:

Date Water Level Measure:	19930106	Feet below Ground Surface:	-367.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	FORMERLY G1011591A		

### Water Level Information:

Date Water Level Measure:	19950111	Feet below Ground Surface:	-336.0
Collecting Agency:	USGS	Collection Method:	ANALOG/GRAPHIC RECORDER
Remarks:	FORMERLY G1011591A		

### Water Level Information:

Date Water Level Measure:	19960110	Feet below Ground Surface:	-339.0
Collecting Agency:	USGS	Collection Method:	ELECTRIC TAPE
Remarks:	FORMERLY G1011591A		

### Water Level Information:

Date Water Level Measure:	19960925	Feet below Ground Surface:	-388.0
Collecting Agency:	USGS	Collection Method:	ELECTRIC TAPE
Remarks:	FORMERLY G1011591A		

### Water Level Information:

Date Water Level Measure:	19970107	Feet below Ground Surface:	-342.0
Collecting Agency:	USGS	Collection Method:	AIR LINE
Remarks:	FORMERLY G1011591A		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**Q116**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS      TXHG60000005041**

Database:	Water Well Database	Well #:	6075
Permittee:	Houston, City of	Permit #:	215024
Start Date of Permit:	2/1/2021	Exp Date of Permit:	1/31/2022
Usage:	Public Supply	Active:	Active
Year Drilled:	1997	Diameter:	14
Depth (ft):	1620	Depth to 1st Screen (ft):	1080

**1G**  
**SE**  
**1/4 - 1/2 Mile**  
**Lower**

Site ID:                      108667  
 Groundwater Flow:        VARIES  
 Shallowest Water Table Depth: 6.8  
 Deepest Water Table Depth: 9.05  
 Average Water Table Depth: Not Reported  
 Date:                         2-28-98

**AQUIFLOW      58921**

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

---

**1**  
**NNW**  
**1/2 - 1 Mile**

**OIL\_GAS TXOG90001088944**

Surface ID: 176755  
Bottom ID: 176755  
Current Wells #: 1  
Radioactive: Not Reported

Well Number: Not Reported  
API #: 42201  
Well Type: Dry Hole  
Side Track: Not Reported



right solutions.  
right partner.

---

10450 Stancliff Rd. Suite 210  
Houston, TX 77099  
T: +1 281 530 5656  
F: +1 281 530 5887

July 15, 2024

Mike Schultz  
SKA Consulting, L.P.  
1888 Stebbins Drive  
Suite 100  
Houston, TX 77043

Work Order: **HS24061356**

Laboratory Results for: **Doty Wastewater Permit**

Dear Mike Schultz,

ALS Environmental received 3 sample(s) on Jun 21, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER

Bernadette A. Fini  
Project Manager

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24061356

**SAMPLE SUMMARY**

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Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24061356-01	SB-57	Water		21-Jun-2024 12:00	21-Jun-2024 14:14	<input type="checkbox"/>
HS24061356-02	Field Dup	Water		21-Jun-2024 00:00	21-Jun-2024 14:14	<input checked="" type="checkbox"/>
HS24061356-03	Field Blank	Water		21-Jun-2024 00:00	21-Jun-2024 14:14	<input checked="" type="checkbox"/>

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24061356

**CASE NARRATIVE****Work Order Comments**

- Due to a login error the Cr+6 was inadvertently missed being logged in and will be performed out side the holding time. Data will be "H" flagged and should be considered estimates.
- Sample received outside method holding time for pH, dissolved oxygen and residual chlorine. These are an immediate test. Sample results are flagged with an "H" qualifier.  
  
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.
- The analyses for low level mercury and available cyanide were subcontracted to ALS Environmental in Holland, MI. Final Report attached.

**ECD Organics by Method E608****Batch ID: 214226****Sample ID: MBLK-214226**

- Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

**Sample ID: SB-57 (HS24061356-01)**

- One or more surrogate recoveries were above the upper control limits. No target analytes were detected in the sample. The high surrogate recoveries did not impact the non-detect results for target analytes. DCB

**GCMS Semivolatiles by Method E625****Batch ID: 214091****Sample ID: LCS-214091**

- E flag for Pentachlorobenzene, upper limits for Pentachlorobenzene is 100 and it is spiked at 100. Pentachlorobenzene is still within % R limits in both LCS/LCSD and all samples are ND for this compound

**GCMS Volatiles by Method E624****Batch ID: R470227****Sample ID: HS24060905-08MS**

- MS and MSD are for an unrelated sample

**Metals by Method Calculation****Batch ID: R471368**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**Metals by Method E200.8****Batch ID: 214219****Sample ID: HS24061719-01MS, HS24061564-05MS**

- MS and MSD are for an unrelated sample

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**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24061356

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**CASE NARRATIVE**

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**Wet Chemistry by Method E300**

**Batch ID: R470208**

**Sample ID: HS24061398-21MS**

- MS and MSD are for an unrelated sample

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**WetChemistry by Method M2540D**

**Batch ID: R470637**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**WetChemistry by Method E410.4**

**Batch ID: R470961**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**WetChemistry by Method E1664A**

**Batch ID: R471457**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**WetChemistry by Method SW9060**

**Batch ID: R471658**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**WetChemistry by Method SM2320B**

**Batch ID: R471175**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**WetChemistry by Method SM4500CL F**

**Batch ID: R470959**

**Sample ID: HS24061242-01MS**

- MS is for an unrelated sample

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**WetChemistry by Method M2540C**

**Batch ID: R470632**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**WetChemistry by Method M4500 NH3 D**

**Batch ID: 214643,R471595**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24061356

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**CASE NARRATIVE**

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**WetChemistry by Method M4500-O G**

**Batch ID: R470255**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SM4500H+ B**

**Batch ID: R470573**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SW7196**

**Batch ID: R470333**

**Sample ID: SB-57 (HS24061356-01)**

- Dilution factor of 10 due to sample matrix
  - Sample was analyzed outside of the holding time due to laboratory error. Sample results should be considered estimated.
- 

**WetChemistry by Method E365.3**

**Batch ID: 214632**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SM4500 NH3-B-F**

**Batch ID: 214593**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SM5210 B**

**Batch ID: 213960,213962**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 21-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061356  
 Lab ID:HS24061356-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
<b>VOLATILES</b>		<b>Method:E624</b>			Analyst: TS			
1,1,1-Trichloroethane	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
1,1,2,2-Tetrachloroethane	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
1,1,2-Trichloroethane	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
1,1-Dichloroethane	U		0.400	5.00	ug/L	1	22-Jun-2024 17:47	
1,1-Dichloroethene	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
1,2-Dibromoethane	U		0.400	5.00	ug/L	1	22-Jun-2024 17:47	
1,2-Dichlorobenzene	U		0.600	5.00	ug/L	1	22-Jun-2024 17:47	
1,2-Dichloroethane	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
1,2-Dichloropropane	U		0.700	5.00	ug/L	1	22-Jun-2024 17:47	
1,3-Dichlorobenzene	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
1,4-Dichlorobenzene	U		0.600	5.00	ug/L	1	22-Jun-2024 17:47	
2-Butanone	U		1.00	10.0	ug/L	1	22-Jun-2024 17:47	
2-Chloroethyl vinyl ether	U		1.30	10.0	ug/L	1	22-Jun-2024 17:47	
Acrolein	U		4.00	20.0	ug/L	1	22-Jun-2024 17:47	
Acrylonitrile	U		4.00	10.0	ug/L	1	22-Jun-2024 17:47	
Benzene	U		0.600	5.00	ug/L	1	22-Jun-2024 17:47	
Bromodichloromethane	U		0.600	5.00	ug/L	1	22-Jun-2024 17:47	
Bromoform	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
Bromomethane	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
Carbon tetrachloride	U		0.600	5.00	ug/L	1	22-Jun-2024 17:47	
Chlorobenzene	U		0.400	5.00	ug/L	1	22-Jun-2024 17:47	
Chloroethane	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
Chloroform	U		0.600	5.00	ug/L	1	22-Jun-2024 17:47	
Chloromethane	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
cis-1,3-Dichloropropene	U		0.600	5.00	ug/L	1	22-Jun-2024 17:47	
Dibromochloromethane	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
Ethylbenzene	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
m,p-Xylene	U		0.600	10.0	ug/L	1	22-Jun-2024 17:47	
Methylene chloride	U		1.00	10.0	ug/L	1	22-Jun-2024 17:47	
Naphthalene	U		0.700	5.00	ug/L	1	22-Jun-2024 17:47	
o-Xylene	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
Tetrachloroethene	U		0.600	5.00	ug/L	1	22-Jun-2024 17:47	
Toluene	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
trans-1,2-Dichloroethene	U		0.400	5.00	ug/L	1	22-Jun-2024 17:47	
trans-1,3-Dichloropropene	U		0.600	5.00	ug/L	1	22-Jun-2024 17:47	
Trichloroethene	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
Vinyl chloride	U		0.400	2.00	ug/L	1	22-Jun-2024 17:47	
Xylenes, Total	U		0.500	5.00	ug/L	1	22-Jun-2024 17:47	
1,3-Dichloropropene, Total	U		0.600	5.00	ug/L	1	22-Jun-2024 17:47	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 21-Jun-2024 12:00

**ANALYTICAL REPORT**

WorkOrder:HS24061356  
 Lab ID:HS24061356-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>VOLATILES</b>							Analyst: TS
	<b>Method:E624</b>						
Surr: 1,2-Dichloroethane-d4	101			70-126	%REC	1	22-Jun-2024 17:47
Surr: 4-Bromofluorobenzene	102			82-124	%REC	1	22-Jun-2024 17:47
Surr: Dibromofluoromethane	107			77-123	%REC	1	22-Jun-2024 17:47
Surr: Toluene-d8	112			82-127	%REC	1	22-Jun-2024 17:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 21-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061356  
 Lab ID:HS24061356-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>SEMIVOLATILE</b>		<b>Method:E625</b>			Prep:E625 / 26-Jun-2024		Analyst: GEY
1,2,4,5-Tetrachlorobenzene	U		0.600	5.00	ug/L	1	27-Jun-2024 01:15
1,2,4-Trichlorobenzene	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
1,2-Diphenylhydrazine	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
2,4,5-Trichlorophenol	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
2,4,6-Trichlorophenol	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
2,4-Dichlorophenol	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
2,4-Dimethylphenol	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
2,4-Dinitrophenol	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
2,4-Dinitrotoluene	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
2,6-Dinitrotoluene	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
2-Chloronaphthalene	U		0.600	5.00	ug/L	1	27-Jun-2024 01:15
2-Chlorophenol	U		1.00	5.00	ug/L	1	27-Jun-2024 01:15
2-Methylphenol	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
2-Nitrophenol	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
3&4-Methylphenol	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
3,3'-Dichlorobenzidine	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
4,6-Dinitro-2-methylphenol	U		0.900	5.00	ug/L	1	27-Jun-2024 01:15
4-Bromophenyl phenyl ether	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
4-Chloro-3-methylphenol	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
4-Chlorophenyl phenyl ether	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
4-Nitrophenol	U		0.600	5.00	ug/L	1	27-Jun-2024 01:15
Acenaphthene	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
Acenaphthylene	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
Anthracene	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
Benz(a)anthracene	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
Benzidine	U		5.00	5.00	ug/L	1	27-Jun-2024 01:15
Benzo(a)pyrene	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
Benzo(b)fluoranthene	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
Benzo(g,h,i)perylene	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
Benzo(k)fluoranthene	U		0.700	5.00	ug/L	1	27-Jun-2024 01:15
Bis(2-chloroethoxy)methane	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
Bis(2-chloroethyl)ether	U		0.700	5.00	ug/L	1	27-Jun-2024 01:15
Bis(2-chloroisopropyl)ether	U		0.800	5.00	ug/L	1	27-Jun-2024 01:15
Bis(2-ethylhexyl)phthalate	U		0.800	5.00	ug/L	1	27-Jun-2024 01:15
Butyl benzyl phthalate	U		0.600	5.00	ug/L	1	27-Jun-2024 01:15
Chrysene	U		0.800	5.00	ug/L	1	27-Jun-2024 01:15
Dibenz(a,h)anthracene	U		0.600	5.00	ug/L	1	27-Jun-2024 01:15
Diethyl phthalate	U		0.700	5.00	ug/L	1	27-Jun-2024 01:15
Dimethyl phthalate	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 21-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061356  
 Lab ID:HS24061356-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>SEMIVOLATILE</b>		<b>Method:E625</b>			Prep:E625 / 26-Jun-2024		Analyst: GEY
Di-n-butyl phthalate	U		0.800	5.00	ug/L	1	27-Jun-2024 01:15
Di-n-octyl phthalate	U		2.00	5.00	ug/L	1	27-Jun-2024 01:15
Fluoranthene	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
Fluorene	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
Hexachlorobenzene	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
Hexachlorobutadiene	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
Hexachlorocyclopentadiene	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
Hexachloroethane	U		0.800	5.00	ug/L	1	27-Jun-2024 01:15
Indeno(1,2,3-cd)pyrene	U		0.600	5.00	ug/L	1	27-Jun-2024 01:15
Isophorone	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
Nitrobenzene	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
N-Nitrosodiethylamine	U		0.600	5.00	ug/L	1	27-Jun-2024 01:15
N-Nitrosodimethylamine	U		0.600	5.00	ug/L	1	27-Jun-2024 01:15
N-Nitroso-di-n-butylamine	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
N-Nitrosodi-n-propylamine	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
N-Nitrosodiphenylamine	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
Nonylphenol	U	n	5.00	5.00	ug/L	1	27-Jun-2024 01:15
Pentachlorobenzene	U		0.500	5.00	ug/L	1	27-Jun-2024 01:15
Pentachlorophenol	U		0.800	5.00	ug/L	1	27-Jun-2024 01:15
Phenanthrene	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
Phenol	U		0.400	5.00	ug/L	1	27-Jun-2024 01:15
Pyrene	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
Pyridine	U		0.300	5.00	ug/L	1	27-Jun-2024 01:15
<i>Surr: 2,4,6-Tribromophenol</i>	<i>91.3</i>			<i>42-124</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2024 01:15</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>76.5</i>			<i>48-120</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2024 01:15</i>
<i>Surr: 2-Fluorophenol</i>	<i>60.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2024 01:15</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>81.8</i>			<i>51-135</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2024 01:15</i>
<i>Surr: Nitrobenzene-d5</i>	<i>69.6</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2024 01:15</i>
<i>Surr: Phenol-d6</i>	<i>76.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>27-Jun-2024 01:15</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 21-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061356  
 Lab ID:HS24061356-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>CHLORINATED PEST/PCBS BY E608</b>		<b>Method:E608</b>			Prep:E608 / 28-Jun-2024		Analyst: E.H.
4,4'-DDD	U		0.0100	0.100	ug/L	1	29-Jun-2024 05:15
4,4'-DDE	U		0.0100	0.100	ug/L	1	29-Jun-2024 05:15
4,4'-DDT	U		0.0100	0.100	ug/L	1	29-Jun-2024 05:15
Aldrin	U		0.00500	0.0500	ug/L	1	29-Jun-2024 05:15
alpha-BHC	U		0.0100	0.0500	ug/L	1	29-Jun-2024 05:15
Aroclor 1016	U		0.200	0.500	ug/L	1	30-Jun-2024 20:36
Aroclor 1221	U		0.200	0.500	ug/L	1	30-Jun-2024 20:36
Aroclor 1232	U		0.200	0.500	ug/L	1	30-Jun-2024 20:36
Aroclor 1242	U		0.200	0.500	ug/L	1	30-Jun-2024 20:36
Aroclor 1248	U		0.200	0.500	ug/L	1	30-Jun-2024 20:36
Aroclor 1254	U		0.200	0.500	ug/L	1	30-Jun-2024 20:36
Aroclor 1260	U		0.200	0.500	ug/L	1	30-Jun-2024 20:36
beta-BHC	U		0.0100	0.0500	ug/L	1	29-Jun-2024 05:15
Chlordane	U		0.100	0.500	ug/L	1	29-Jun-2024 05:15
delta-BHC	U		0.0100	0.0500	ug/L	1	29-Jun-2024 05:15
Dieldrin	U		0.00500	0.100	ug/L	1	29-Jun-2024 05:15
Endosulfan I	U		0.0100	0.0500	ug/L	1	29-Jun-2024 05:15
Endosulfan II	U		0.0100	0.100	ug/L	1	29-Jun-2024 05:15
Endosulfan sulfate	U		0.0100	0.100	ug/L	1	29-Jun-2024 05:15
Endrin	U		0.0100	0.100	ug/L	1	29-Jun-2024 05:15
Endrin aldehyde	U		0.0100	0.100	ug/L	1	29-Jun-2024 05:15
gamma-BHC	U		0.00500	0.0500	ug/L	1	29-Jun-2024 05:15
Heptachlor	U		0.00500	0.0500	ug/L	1	29-Jun-2024 05:15
Heptachlor epoxide	U		0.00500	0.0500	ug/L	1	29-Jun-2024 05:15
Toxaphene	U		0.130	0.500	ug/L	1	29-Jun-2024 05:15
Surr: Decachlorobiphenyl	138			61-154	%REC	1	29-Jun-2024 05:15
Surr: Decachlorobiphenyl	177	S		61-154	%REC	1	30-Jun-2024 20:36
Surr: Tetrachlor-m-xylene	101			60-144	%REC	1	29-Jun-2024 05:15
Surr: Tetrachlor-m-xylene	108			60-144	%REC	1	30-Jun-2024 20:36
<b>TRIVALENT CHROMIUM</b>		<b>Method:Calculation</b>					Analyst: MSC
Chromium, Trivalent	U	n	0.0100	0.0100	mg/L	1	06-Jul-2024 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 21-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061356  
 Lab ID:HS24061356-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>TOTAL METALS BY E200.8, REV 5.4, 1994</b>		<b>Method:E200.8</b>		Prep:E200.8 / 28-Jun-2024		Analyst: MSC	
Aluminum	31.9		0.800	10.0	ug/l	1	06-Jul-2024 12:28
Antimony	0.233	J	0.0530	5.00	ug/l	1	06-Jul-2024 12:28
Arsenic	0.597	J	0.250	2.00	ug/l	1	06-Jul-2024 12:28
Barium	1,750		1.68	80.0	ug/l	20	06-Jul-2024 12:30
Beryllium	U		0.0910	5.00	ug/l	1	06-Jul-2024 12:28
Cadmium	U		0.0770	2.00	ug/l	1	06-Jul-2024 12:28
Chromium	1.43	J	0.251	4.00	ug/l	1	06-Jul-2024 12:28
Copper	0.986	J	0.170	2.00	ug/l	1	06-Jul-2024 12:28
Iron	24,100		50.0	200	ug/l	1	06-Jul-2024 12:28
Lead	2.44		0.120	2.00	ug/l	1	06-Jul-2024 12:28
Magnesium	60,000		7.80	500	ug/l	1	06-Jul-2024 12:28
Manganese	379		0.0660	5.00	ug/l	1	06-Jul-2024 12:28
Molybdenum	U		0.490	5.00	ug/l	1	06-Jul-2024 12:28
Nickel	0.857	J	0.110	2.00	ug/l	1	06-Jul-2024 12:28
Selenium	U		0.860	2.00	ug/l	1	06-Jul-2024 12:28
Silver	U		0.0440	2.00	ug/l	1	06-Jul-2024 12:28
Thallium	U		0.250	2.00	ug/l	1	06-Jul-2024 12:28
Zinc	6.05		1.00	4.00	ug/l	1	06-Jul-2024 12:28
<b>OIL &amp; GREASE (HEM) BY E1664A</b>		<b>Method:E1664A</b>				Analyst: MC	
Oil and Grease	U		0.610	2.00	mg/L	1	09-Jul-2024 07:00
<b>ANIONS BY E300.0, REV 2.1, 1993</b>		<b>Method:E300</b>				Analyst: TH	
Bromide	1.17		0.0300	0.100	mg/L	1	22-Jun-2024 16:23
Chloride	49.0		0.200	0.500	mg/L	1	22-Jun-2024 16:23
Fluoride	0.354		0.0500	0.100	mg/L	1	22-Jun-2024 16:23
Nitrogen, Nitrate (As N)	0.0412	J	0.0300	0.100	mg/L	1	22-Jun-2024 16:23
Sulfate	0.230	J	0.200	0.500	mg/L	1	22-Jun-2024 16:23
<b>PHOSPHORUS BY E365.3-1978</b>		<b>Method:E365.3</b>		Prep:E365.3 / 09-Jul-2024		Analyst: SG	
Phosphorus, Total (As P)	U		0.0200	0.0500	mg/L	1	09-Jul-2024 16:00
<b>CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993</b>		<b>Method:E410.4</b>				Analyst: TH	
Chemical Oxygen Demand	92.0		5.00	15.0	mg/L	1	01-Jul-2024 14:30
<b>TOTAL DISSOLVED SOLIDS BY SM2540C-2011</b>		<b>Method:M2540C</b>				Analyst: MH	
Total Dissolved Solids (Residue, Filterable)	990		5.00	10.0	mg/L	1	27-Jun-2024 09:30
<b>TOTAL SUSPENDED SOLIDS BY SM2540D-2011</b>		<b>Method:M2540D</b>				Analyst: MH	
Suspended Solids (Residue, Non-Filterable)	55.3		0.930	2.50	mg/L	1	27-Jun-2024 11:30
<b>ORGANIC NITROGEN BY SM4500-NH3D MINUS NH3F-2011</b>		<b>Method:M4500 NH3 D</b>				Analyst: JHD	
Nitrogen, Organic	3.3		0.50	0.50	mg/L	1	10-Jul-2024 14:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 21-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061356  
 Lab ID:HS24061356-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011</b>		Method:M4500 NH3 D				Prep:M4500-N C / 09-Jul-2024	Analyst: HB
Nitrogen, Total Kjeldahl	7.3		0.10	0.50	mg/L	1	09-Jul-2024 15:00
<b>DISSOLVED OXYGEN BY SM4500-O G</b>		Method:M4500-O G					Analyst: AR
Oxygen, Dissolved	5.17	H	1.00	1.00	mg/L	1	24-Jun-2024 13:12
<b>ALKALINITY BY -2011</b>		Method:SM2320B					Analyst: AR
Alkalinity, Total (As CaCO3)	1,160		2.50	5.00	mg/L	1	02-Jul-2024 20:14
<b>AMMONIA AS N BY SM4500 NH3-B-F-2011</b>		Method:SM4500 NH3-B-F				Prep:M4500-NH3 B / 09-Jul-2024	Analyst: SG
Nitrogen, Ammonia (as N)	4.0		0.12	0.25	mg/L	1	09-Jul-2024 15:24
<b>RESIDUAL CHLORINE BY SM4500CL F-2011</b>		Method:SM4500CL F					Analyst: MC
Chlorine	U	H	0.10	0.10	mg/L	1	01-Jul-2024 14:38
<b>PH BY SM4500H+ B-2011</b>		Method:SM4500H+ B					Analyst: MR
pH	6.82	H	0.100	0.100	pH Units	1	27-Jun-2024 10:15
Temp Deg C @pH	20.6	H	0	0	°C	1	27-Jun-2024 10:15
<b>BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011</b>		Method:SM5210 B				Prep:SM5210 B / 22-Jun-2024	Analyst: AR
Biochemical Oxygen Demand	3.08		2.00	2.00	mg/L	1	27-Jun-2024 15:38
<b>CBOD BY SM5210B-2011</b>		Method:SM5210 B				Prep:SM5210 B / 22-Jun-2024	Analyst: AR
Carbonaceous Biochemical Oxygen Demand	U		2.00	2.00	mg/L	1	27-Jun-2024 15:41
<b>HEXAVALENT CHROMIUM BY SW7196A</b>		Method:SW7196					Analyst: HB
Chromium, Hexavalent	U	H	0.0600	0.100	mg/L	10	25-Jun-2024 09:05
<b>TOTAL ORGANIC CARBON BY SW9060A</b>		Method:SW9060					Analyst: MZD
Organic Carbon, Total	40.8		0.500	1.00	mg/L	1	10-Jul-2024 19:38
<b>SUB ANALYSIS AVAILABLE CYANIDE - EPA OIA-1667</b>		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0		NA	1	28-Jun-2024 08:28
<b>SUBCONTRACT ANALYSIS - MERCURY LOW</b>		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0		NA	1	28-Jun-2024 08:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

<b>Batch ID:</b> 213960		<b>Start Date:</b> 22 Jun 2024 09:15		<b>End Date:</b> 22 Jun 2024 09:15	
<b>Method:</b> CBOD PREP		<b>Prep Code:</b> CBOD_PR			
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24061356-01		300 (mL)	300 (mL)	1	1-L plastic, Neat
<b>Batch ID:</b> 213962		<b>Start Date:</b> 22 Jun 2024 11:00		<b>End Date:</b> 22 Jun 2024 11:00	
<b>Method:</b> WETCHEMPREP, BOD		<b>Prep Code:</b> BOD_PR 5210B			
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24061356-01		300 (mL)	300 (mL)	1	1-L plastic, Neat
<b>Batch ID:</b> 214091		<b>Start Date:</b> 26 Jun 2024 09:03		<b>End Date:</b> 26 Jun 2024 09:03	
<b>Method:</b> 625 AQ SEP FUNNEL EXTRACTION		<b>Prep Code:</b> 625PRF			
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24061356-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Sodium thiosulfate
<b>Batch ID:</b> 214219		<b>Start Date:</b> 28 Jun 2024 09:00		<b>End Date:</b> 28 Jun 2024 09:00	
<b>Method:</b> TOTAL METALS PREP BY E200.8, REV 5.4, 1994		<b>Prep Code:</b> 200.8PR			
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24061356-01		10 (mL)	10 (mL)	1	120 plastic HNO3
<b>Batch ID:</b> 214226		<b>Start Date:</b> 28 Jun 2024 12:04		<b>End Date:</b> 28 Jun 2024 12:04	
<b>Method:</b> AQPREP SEP FUNNEL: PEST/PCB		<b>Prep Code:</b> 608PR			
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24061356-01		1000 (mL)	10 (mL)	0.01	1-liter amber glass, Neat
<b>Batch ID:</b> 214593		<b>Start Date:</b> 09 Jul 2024 06:45		<b>End Date:</b> 09 Jul 2024 06:45	
<b>Method:</b> NITROGEN AMMONIA - WATER - PREP		<b>Prep Code:</b> NIT_AMM_W_PR			
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24061356-01		5 (mL)	25 (mL)	5	500 mL plastic, H2SO4 to pH <2
<b>Batch ID:</b> 214632		<b>Start Date:</b> 09 Jul 2024 10:00		<b>End Date:</b> 09 Jul 2024 10:00	
<b>Method:</b> PHOSPHOROUS		<b>Prep Code:</b> P_TW_PR			
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24061356-01		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2
<b>Batch ID:</b> 214643		<b>Start Date:</b> 09 Jul 2024 08:30		<b>End Date:</b> 09 Jul 2024 08:30	
<b>Method:</b> TKN WATER - PREP		<b>Prep Code:</b> TKN_W_PR			
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24061356-01		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 213960 ( 0 )		<b>Test Name :</b> CBOD BY SM5210B-2011			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00		22 Jun 2024 09:15	27 Jun 2024 15:41	1
<b>Batch ID:</b> 213962 ( 0 )		<b>Test Name :</b> BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00		22 Jun 2024 11:00	27 Jun 2024 15:38	1
<b>Batch ID:</b> 214091 ( 0 )		<b>Test Name :</b> SEMIVOLATILE			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00		26 Jun 2024 09:03	27 Jun 2024 01:15	1
<b>Batch ID:</b> 214219 ( 1 )		<b>Test Name :</b> TOTAL METALS BY E200.8, REV 5.4, 1994			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00		28 Jun 2024 09:00	06 Jul 2024 12:30	20
HS24061356-01	SB-57	21 Jun 2024 12:00		28 Jun 2024 09:00	06 Jul 2024 12:28	1
<b>Batch ID:</b> 214226 ( 0 )		<b>Test Name :</b> CHLORINATED PEST/PCBS BY E608			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00		28 Jun 2024 12:04	29 Jun 2024 05:15	1
<b>Batch ID:</b> 214226 ( 1 )		<b>Test Name :</b> CHLORINATED PEST/PCBS BY E608			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00		28 Jun 2024 12:04	30 Jun 2024 20:36	1
<b>Batch ID:</b> 214593 ( 0 )		<b>Test Name :</b> AMMONIA AS N BY SM4500 NH3-B-F-2011			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00		09 Jul 2024 06:45	09 Jul 2024 15:24	1
<b>Batch ID:</b> 214632 ( 0 )		<b>Test Name :</b> PHOSPHORUS BY E365.3-1978			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00		09 Jul 2024 10:00	09 Jul 2024 16:00	1
<b>Batch ID:</b> 214643 ( 0 )		<b>Test Name :</b> TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00		09 Jul 2024 08:30	09 Jul 2024 15:00	1
<b>Batch ID:</b> R470208 ( 0 )		<b>Test Name :</b> ANIONS BY E300.0, REV 2.1, 1993			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			22 Jun 2024 16:23	1
<b>Batch ID:</b> R470227 ( 0 )		<b>Test Name :</b> VOLATILES			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			22 Jun 2024 17:47	1
<b>Batch ID:</b> R470255 ( 0 )		<b>Test Name :</b> DISSOLVED OXYGEN BY SM4500-O G			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			24 Jun 2024 13:12	1
<b>Batch ID:</b> R470333 ( 0 )		<b>Test Name :</b> HEXAVALENT CHROMIUM BY SW7196A			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			25 Jun 2024 09:05	10
<b>Batch ID:</b> R470573 ( 0 )		<b>Test Name :</b> PH BY SM4500H+ B-2011			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			27 Jun 2024 10:15	1
<b>Batch ID:</b> R470632 ( 0 )		<b>Test Name :</b> TOTAL DISSOLVED SOLIDS BY SM2540C-2011			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			27 Jun 2024 09:30	1
<b>Batch ID:</b> R470637 ( 0 )		<b>Test Name :</b> TOTAL SUSPENDED SOLIDS BY SM 2540D-2011			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			27 Jun 2024 11:30	1

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> R470672 ( 0 )		<b>Test Name :</b> SUBCONTRACT ANALYSIS - MERCURY LOW			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			28 Jun 2024 08:28	1
HS24061356-01	SB-57	21 Jun 2024 12:00			28 Jun 2024 08:28	1
<b>Batch ID:</b> R470959 ( 0 )		<b>Test Name :</b> RESIDUAL CHLORINE BY SM4500CL F-2011			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			01 Jul 2024 14:38	1
<b>Batch ID:</b> R470961 ( 0 )		<b>Test Name :</b> CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			01 Jul 2024 14:30	1
<b>Batch ID:</b> R471175 ( 0 )		<b>Test Name :</b> ALKALINITY BY -2011			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			02 Jul 2024 20:14	1
<b>Batch ID:</b> R471368 ( 0 )		<b>Test Name :</b> TRIVALENT CHROMIUM			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			06 Jul 2024 13:00	1
<b>Batch ID:</b> R471457 ( 0 )		<b>Test Name :</b> OIL & GREASE (HEM) BY E1664A			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			09 Jul 2024 07:00	1
<b>Batch ID:</b> R471595 ( 0 )		<b>Test Name :</b> ORGANIC NITROGEN BY SM4500-NH3D MINUS NH3F-2011			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			10 Jul 2024 14:13	1
<b>Batch ID:</b> R471658 ( 0 )		<b>Test Name :</b> TOTAL ORGANIC CARBON BY SW9060A			<b>Matrix:</b> Water	
HS24061356-01	SB-57	21 Jun 2024 12:00			10 Jul 2024 19:38	1

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

**Batch ID:** 214226 ( 0 )      **Instrument:** ECD\_17      **Method:** CHLORINATED PEST/PCBS BY E608

MBLK	Sample ID: MBLK-214226	Units: ug/L			Analysis Date: 29-Jun-2024 05:47					
Client ID:	Run ID: ECD_17_470828	SeqNo: 8109167	PrepDate: 28-Jun-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	U	0.100								
4,4'-DDE	U	0.100								
4,4'-DDT	U	0.100								
Aldrin	U	0.0500								
alpha-BHC	U	0.0500								
beta-BHC	U	0.0500								
Chlordane	U	0.500								
delta-BHC	U	0.0500								
Dieldrin	U	0.100								
Endosulfan I	U	0.0500								
Endosulfan II	U	0.100								
Endosulfan sulfate	U	0.100								
Endrin	U	0.100								
Endrin aldehyde	U	0.100								
gamma-BHC	U	0.0500								
Heptachlor	U	0.0500								
Heptachlor epoxide	U	0.0500								
Toxaphene	U	0.500								
Surr: Decachlorobiphenyl	0.143	0.100	0.2	0	71.5	61 - 154				
Surr: Tetrachlor-m-xylene	0.1962	0.0500	0.2	0	98.1	60 - 144				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214226 ( 0 )		Instrument: ECD_17		Method: CHLORINATED PEST/PCBS BY E608						
LCS	Sample ID: LCS-214226	Units: ug/L			Analysis Date: 29-Jun-2024 05:26					
Client ID:	Run ID: ECD_17_470828	SeqNo: 8109165	PrepDate: 28-Jun-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.5741	0.100	0.5	0	115	53 - 144				
4,4'-DDE	0.526	0.100	0.5	0	105	55 - 144				
4,4'-DDT	0.4724	0.100	0.5	0	94.5	53 - 149				
Aldrin	0.278	0.0500	0.25	0	111	47 - 141				
alpha-BHC	0.2703	0.0500	0.25	0	108	51 - 141				
beta-BHC	0.2518	0.0500	0.25	0	101	58 - 144				
delta-BHC	0.2573	0.0500	0.25	0	103	48 - 146				
Dieldrin	0.5489	0.100	0.5	0	110	56 - 144				
Endosulfan I	0.2172	0.0500	0.25	0	86.9	55 - 141				
Endosulfan II	0.4068	0.100	0.5	0	81.4	57 - 144				
Endosulfan sulfate	0.5108	0.100	0.5	0	102	58 - 145				
Endrin	0.4988	0.100	0.5	0	99.8	60 - 163				
Endrin aldehyde	0.5419	0.100	0.5	0	108	59 - 158				
gamma-BHC	0.2624	0.0500	0.25	0	105	53 - 142				
Heptachlor	0.2451	0.0500	0.25	0	98.0	51 - 144				
Heptachlor epoxide	0.2779	0.0500	0.25	0	111	55 - 142				
Surr: Decachlorobiphenyl	0.1837	0.100	0.2	0	91.8	61 - 154				
Surr: Tetrachlor-m-xylene	0.2418	0.0500	0.2	0	121	60 - 144				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214226 ( 0 )		Instrument: ECD_17		Method: CHLORINATED PEST/PCBS BY E608						
LCSD	Sample ID: LCSD-214226	Units: ug/L			Analysis Date: 29-Jun-2024 05:36					
Client ID:	Run ID: ECD_17_470828	SeqNo: 8109166	PrepDate: 28-Jun-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.5585	0.100	0.5	0	112	53 - 144	0.5741	2.76	20	
4,4'-DDE	0.5058	0.100	0.5	0	101	55 - 144	0.526	3.91	20	
4,4'-DDT	0.4717	0.100	0.5	0	94.3	53 - 149	0.4724	0.146	20	
Aldrin	0.2653	0.0500	0.25	0	106	47 - 141	0.278	4.67	20	
alpha-BHC	0.2581	0.0500	0.25	0	103	51 - 141	0.2703	4.62	20	
beta-BHC	0.2456	0.0500	0.25	0	98.2	58 - 144	0.2518	2.52	20	
delta-BHC	0.2455	0.0500	0.25	0	98.2	48 - 146	0.2573	4.69	20	
Dieldrin	0.5344	0.100	0.5	0	107	56 - 144	0.5489	2.68	20	
Endosulfan I	0.2129	0.0500	0.25	0	85.1	55 - 141	0.2172	2.01	20	
Endosulfan II	0.4028	0.100	0.5	0	80.6	57 - 144	0.4068	0.988	20	
Endosulfan sulfate	0.4983	0.100	0.5	0	99.7	58 - 145	0.5108	2.49	20	
Endrin	0.5078	0.100	0.5	0	102	60 - 163	0.4988	1.79	20	
Endrin aldehyde	0.5204	0.100	0.5	0	104	59 - 158	0.5419	4.05	20	
gamma-BHC	0.253	0.0500	0.25	0	101	53 - 142	0.2624	3.66	20	
Heptachlor	0.2405	0.0500	0.25	0	96.2	51 - 144	0.2451	1.89	20	
Heptachlor epoxide	0.2715	0.0500	0.25	0	109	55 - 142	0.2779	2.36	20	
Surr: Decachlorobiphenyl	0.1743	0.100	0.2	0	87.2	61 - 154	0.1837	5.23	20	
Surr: Tetrachlor-m-xylene	0.2332	0.0500	0.2	0	117	60 - 144	0.2418	3.6	20	

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

**Batch ID:** 214226 ( 1 )      **Instrument:** ECD\_7      **Method:** CHLORINATED PEST/PCBS BY E608

MBLK		Sample ID: MBLK-214226			Units: ug/L		Analysis Date: 30-Jun-2024 21:13			
Client ID:		Run ID: ECD_7_470969			SeqNo: 8111967		PrepDate: 28-Jun-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	0.500								
Aroclor 1221	U	0.500								
Aroclor 1232	U	0.500								
Aroclor 1242	U	0.500								
Aroclor 1248	U	0.500								
Aroclor 1254	U	0.500								
Aroclor 1260	U	0.500								
Surr: Decachlorobiphenyl	0.2113	0.100	0.2	0	106	61 - 154				
Surr: Tetrachlor-m-xylene	0.1923	0.0500	0.2	0	96.1	60 - 144				

LCS		Sample ID: LCS1-214226			Units: ug/L		Analysis Date: 30-Jun-2024 20:48			
Client ID:		Run ID: ECD_7_470969			SeqNo: 8111965		PrepDate: 28-Jun-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	5.551	0.500	5	0	111	54 - 138				
Aroclor 1260	5.4	0.500	5	0	108	57 - 136				
Surr: Decachlorobiphenyl	0.2612	0.100	0.2	0	131	61 - 154				
Surr: Tetrachlor-m-xylene	0.2556	0.0500	0.2	0	128	60 - 144				

LCSD		Sample ID: LCSD1-214226			Units: ug/L		Analysis Date: 30-Jun-2024 21:01			
Client ID:		Run ID: ECD_7_470969			SeqNo: 8111966		PrepDate: 28-Jun-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	5.35	0.500	5	0	107	54 - 138	5.551	3.7	20	
Aroclor 1260	5.092	0.500	5	0	102	57 - 136	5.4	5.86	20	
Surr: Decachlorobiphenyl	0.2309	0.100	0.2	0	115	61 - 154	0.2612	12.3	20	
Surr: Tetrachlor-m-xylene	0.2442	0.0500	0.2	0	122	60 - 144	0.2556	4.53	20	

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

<b>Batch ID:</b> 214219 ( 1 )	<b>Instrument:</b> ICPMS05	<b>Method:</b> TOTAL METALS BY E200.8, REV 5.4, 1994								
<b>MBLK</b>	Sample ID: <b>MBLK-214219</b>	Units: <b>ug/l</b>	Analysis Date: <b>06-Jul-2024 12:08</b>							
Client ID:	Run ID: <b>ICPMS05_471366</b>	SeqNo: <b>8126368</b>	PrepDate: <b>28-Jun-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Aluminum	U	10.0								
Antimony	0.093	5.00								J
Arsenic	U	2.00								
Barium	U	4.00								
Beryllium	U	5.00								
Cadmium	U	2.00								
Chromium	U	4.00								
Copper	U	2.00								
Iron	U	200								
Lead	U	2.00								
Magnesium	U	500								
Manganese	U	5.00								
Molybdenum	U	5.00								
Nickel	U	2.00								
Selenium	U	2.00								
Silver	U	2.00								
Thallium	U	2.00								
Zinc	U	4.00								

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

**Batch ID:** 214219 ( 1 )      **Instrument:** ICPMS05      **Method:** TOTAL METALS BY E200.8, REV 5.4, 1994

LCS		Sample ID: LCS-214219			Units: ug/l		Analysis Date: 06-Jul-2024 12:10			
Client ID:		Run ID: ICPMS05_471366			SeqNo: 8126369		PrepDate: 28-Jun-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	95.37	10.0	100	0	95.4	85 - 115				
Antimony	46.82	5.00	50	0	93.6	85 - 115				
Arsenic	46.59	2.00	50	0	93.2	85 - 115				
Barium	46.4	4.00	50	0	92.8	85 - 115				
Beryllium	43.6	5.00	50	0	87.2	85 - 115				
Cadmium	48.16	2.00	50	0	96.3	85 - 115				
Chromium	46.39	4.00	50	0	92.8	85 - 115				
Copper	48.06	2.00	50	0	96.1	85 - 115				
Iron	4884	200	5000	0	97.7	85 - 115				
Lead	45.82	2.00	50	0	91.6	85 - 115				
Magnesium	4541	500	5000	0	90.8	85 - 115				
Manganese	47.28	5.00	50	0	94.6	85 - 115				
Molybdenum	46.17	5.00	50	0	92.3	85 - 115				
Nickel	47.39	2.00	50	0	94.8	85 - 115				
Selenium	46.1	2.00	50	0	92.2	85 - 115				
Silver	47.84	2.00	50	0	95.7	85 - 115				
Thallium	44.5	2.00	50	0	89.0	85 - 115				
Zinc	47.14	4.00	50	0	94.3	85 - 115				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214219 ( 1 )		Instrument: ICPMS05		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MS	Sample ID: HS24061719-01MS	Units: ug/l			Analysis Date: 05-Jul-2024 22:08					
Client ID:	Run ID: ICPMS05_471296	SeqNo: 8126123	PrepDate: 28-Jun-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	380.4	10.0	100	201.5	179	70 - 130				S
Antimony	54.62	5.00	50	3.381	102	70 - 130				
Arsenic	75.57	2.00	50	18.86	113	70 - 130				
Barium	363.7	4.00	50	276.2	175	70 - 130				SO
Beryllium	54.26	5.00	50	0.067	108	70 - 130				
Cadmium	50.82	2.00	50	0.122	101	70 - 130				
Chromium	59.33	4.00	50	5.989	107	70 - 130				
Copper	113.6	2.00	50	55.31	117	70 - 130				
Iron	5845	200	5000	492.5	107	70 - 130				
Lead	52.43	2.00	50	0.689	103	70 - 130				
Magnesium	31230	500	5000	22840	168	70 - 130				SO
Manganese	149.3	5.00	50	83.21	132	70 - 130				S
Molybdenum	71	5.00	50	15.78	110	70 - 130				
Nickel	66.91	2.00	50	15.1	104	70 - 130				
Selenium	57.7	2.00	50	1.671	112	70 - 130				
Silver	49.55	2.00	50	0.033	99.0	70 - 130				
Thallium	48.43	2.00	50	0.61	95.6	70 - 130				
Zinc	79.45	4.00	50	22.05	115	70 - 130				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214219 ( 1 )		Instrument: ICPMS05		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MS	Sample ID: HS24061564-05MS	Units: ug/l			Analysis Date: 05-Jul-2024 22:01					
Client ID:	Run ID: ICPMS05_471296	SeqNo: 8126120	PrepDate: 28-Jun-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	119.8	10.0	100	12.69	107	70 - 130				
Antimony	47.84	5.00	50	0.67	94.3	70 - 130				
Arsenic	67.84	2.00	50	19.78	96.1	70 - 130				
Barium	84.43	4.00	50	36.83	95.2	70 - 130				
Beryllium	49.15	5.00	50	0.016	98.3	70 - 130				
Cadmium	46.99	2.00	50	0.005	94.0	70 - 130				
Chromium	48.55	4.00	50	1.774	93.5	70 - 130				
Copper	47.87	2.00	50	0.897	94.0	70 - 130				
Iron	4828	200	5000	31.91	95.9	70 - 130				
Lead	46.87	2.00	50	0.774	92.2	70 - 130				
Magnesium	51770	500	5000	46080	114	70 - 130				O
Manganese	68.28	5.00	50	21.54	93.5	70 - 130				
Molybdenum	61.97	5.00	50	14.49	94.9	70 - 130				
Nickel	47.09	2.00	50	1.52	91.1	70 - 130				
Selenium	53	2.00	50	4.77	96.5	70 - 130				
Silver	45.92	2.00	50	0.056	91.7	70 - 130				
Thallium	42.82	2.00	50	0.615	84.4	70 - 130				
Zinc	594.3	4.00	50	541.8	105	70 - 130				O

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214219 ( 1 )		Instrument: ICPMS05		Method: TOTAL METALS BY E200.8, REV 5.4, 1994							
MSD	Sample ID: HS24061719-01MSD	Units: ug/l			Analysis Date: 05-Jul-2024 22:10						
Client ID:	Run ID: ICPMS05_471296	SeqNo: 8126124	PrepDate: 28-Jun-2024	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	376.3	10.0	100	201.5	175	70 - 130	380.4	1.1	20	S	
Antimony	53.14	5.00	50	3.381	99.5	70 - 130	54.62	2.75	20		
Arsenic	73.7	2.00	50	18.86	110	70 - 130	75.57	2.5	20		
Barium	355.3	4.00	50	276.2	158	70 - 130	363.7	2.33	20	SO	
Beryllium	52.66	5.00	50	0.067	105	70 - 130	54.26	2.98	20		
Cadmium	50.14	2.00	50	0.122	100	70 - 130	50.82	1.36	20		
Chromium	57.12	4.00	50	5.989	102	70 - 130	59.33	3.79	20		
Copper	109.5	2.00	50	55.31	108	70 - 130	113.6	3.67	20		
Iron	5622	200	5000	492.5	103	70 - 130	5845	3.88	20		
Lead	51.25	2.00	50	0.689	101	70 - 130	52.43	2.26	20		
Magnesium	30100	500	5000	22840	145	70 - 130	31230	3.69	20	SO	
Manganese	144.1	5.00	50	83.21	122	70 - 130	149.3	3.56	20		
Molybdenum	69.49	5.00	50	15.78	107	70 - 130	71	2.16	20		
Nickel	64.38	2.00	50	15.1	98.6	70 - 130	66.91	3.85	20		
Selenium	57.52	2.00	50	1.671	112	70 - 130	57.7	0.307	20		
Silver	48.44	2.00	50	0.033	96.8	70 - 130	49.55	2.27	20		
Thallium	47.38	2.00	50	0.61	93.5	70 - 130	48.43	2.18	20		
Zinc	79.79	4.00	50	22.05	115	70 - 130	79.45	0.426	20		

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214219 ( 1 )		Instrument: ICPMS05		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MSD	Sample ID: HS24061564-05MSD	Units: ug/l			Analysis Date: 05-Jul-2024 22:03					
Client ID:	Run ID: ICPMS05_471296	SeqNo: 8126121	PrepDate: 28-Jun-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	112.7	10.0	100	12.69	100	70 - 130	119.8	6.08	20	
Antimony	48.6	5.00	50	0.67	95.8	70 - 130	47.84	1.58	20	
Arsenic	69.25	2.00	50	19.78	98.9	70 - 130	67.84	2.06	20	
Barium	86.32	4.00	50	36.83	99.0	70 - 130	84.43	2.21	20	
Beryllium	50.78	5.00	50	0.016	102	70 - 130	49.15	3.26	20	
Cadmium	47.2	2.00	50	0.005	94.4	70 - 130	46.99	0.435	20	
Chromium	50.16	4.00	50	1.774	96.8	70 - 130	48.55	3.26	20	
Copper	47.53	2.00	50	0.897	93.3	70 - 130	47.87	0.713	20	
Iron	4863	200	5000	31.91	96.6	70 - 130	4828	0.732	20	
Lead	48.65	2.00	50	0.774	95.7	70 - 130	46.87	3.73	20	
Magnesium	52520	500	5000	46080	129	70 - 130	51770	1.44	20	O
Manganese	69.15	5.00	50	21.54	95.2	70 - 130	68.28	1.26	20	
Molybdenum	63.6	5.00	50	14.49	98.2	70 - 130	61.97	2.61	20	
Nickel	47.92	2.00	50	1.52	92.8	70 - 130	47.09	1.76	20	
Selenium	53.68	2.00	50	4.77	97.8	70 - 130	53	1.29	20	
Silver	47.28	2.00	50	0.056	94.4	70 - 130	45.92	2.92	20	
Thallium	44.98	2.00	50	0.615	88.7	70 - 130	42.82	4.92	20	
Zinc	601	4.00	50	541.8	118	70 - 130	594.3	1.13	20	O

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214091 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
MBLK	Sample ID: MBLK-214091	Units: ug/L			Analysis Date: 26-Jun-2024 12:46					
Client ID:	Run ID: SV-4_470528	SeqNo: 8104055	PrepDate: 26-Jun-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	U	5.00								
1,2,4-Trichlorobenzene	U	5.00								
1,2-Diphenylhydrazine	U	5.00								
2,4,5-Trichlorophenol	U	5.00								
2,4,6-Trichlorophenol	U	5.00								
2,4-Dichlorophenol	U	5.00								
2,4-Dimethylphenol	U	5.00								
2,4-Dinitrophenol	U	5.00								
2,4-Dinitrotoluene	U	5.00								
2,6-Dinitrotoluene	U	5.00								
2-Chloronaphthalene	U	5.00								
2-Chlorophenol	U	5.00								
2-Methylphenol	U	5.00								
2-Nitrophenol	U	5.00								
3&4-Methylphenol	U	5.00								
3,3'-Dichlorobenzidine	U	5.00								
4,6-Dinitro-2-methylphenol	U	5.00								
4-Bromophenyl phenyl ether	U	5.00								
4-Chloro-3-methylphenol	U	5.00								
4-Chlorophenyl phenyl ether	U	5.00								
4-Nitrophenol	U	5.00								
Acenaphthene	U	5.00								
Acenaphthylene	U	5.00								
Anthracene	U	5.00								
Benz(a)anthracene	U	5.00								
Benzidine	U	5.00								
Benzo(a)pyrene	U	5.00								
Benzo(b)fluoranthene	U	5.00								
Benzo(g,h,i)perylene	U	5.00								
Benzo(k)fluoranthene	U	5.00								
Bis(2-chloroethoxy)methane	U	5.00								
Bis(2-chloroethyl)ether	U	5.00								
Bis(2-chloroisopropyl)ether	U	5.00								
Bis(2-ethylhexyl)phthalate	U	5.00								

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214091 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
MBLK	Sample ID: MBLK-214091	Units: ug/L			Analysis Date: 26-Jun-2024 12:46					
Client ID:	Run ID: SV-4_470528	SeqNo: 8104055		PrepDate: 26-Jun-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Butyl benzyl phthalate	U	5.00								
Chrysene	U	5.00								
Dibenz(a,h)anthracene	U	5.00								
Diethyl phthalate	U	5.00								
Dimethyl phthalate	U	5.00								
Di-n-butyl phthalate	U	5.00								
Di-n-octyl phthalate	U	5.00								
Fluoranthene	U	5.00								
Fluorene	U	5.00								
Hexachlorobenzene	U	5.00								
Hexachlorobutadiene	U	5.00								
Hexachlorocyclopentadiene	U	5.00								
Hexachloroethane	U	5.00								
Indeno(1,2,3-cd)pyrene	U	5.00								
Isophorone	U	5.00								
Nitrobenzene	U	5.00								
N-Nitrosodiethylamine	U	5.00								
N-Nitrosodimethylamine	U	5.00								
N-Nitroso-di-n-butylamine	U	5.00								
N-Nitrosodi-n-propylamine	U	5.00								
N-Nitrosodiphenylamine	U	5.00								
Nonylphenol	U	5.00								
Pentachlorobenzene	U	5.00								
Pentachlorophenol	U	5.00								
Phenanthrene	U	5.00								
Phenol	U	5.00								
Pyrene	U	5.00								
Pyridine	U	5.00								
Surr: 2,4,6-Tribromophenol	75.81	5.00	100	0	75.8	42 - 124				
Surr: 2-Fluorobiphenyl	73.3	5.00	100	0	73.3	48 - 120				
Surr: 2-Fluorophenol	57.58	5.00	100	0	57.6	20 - 120				
Surr: 4-Terphenyl-d14	73.68	5.00	100	0	73.7	51 - 135				
Surr: Nitrobenzene-d5	66.71	5.00	100	0	66.7	41 - 120				
Surr: Phenol-d6	61.19	5.00	100	0	61.2	20 - 120				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214091 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS-214091	Units: ug/L			Analysis Date: 26-Jun-2024 13:08					
Client ID:	Run ID: SV-4_470528	SeqNo: 8104056	PrepDate: 26-Jun-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	97.73	5.00	100	0	97.7	49 - 120				
1,2,4-Trichlorobenzene	89.76	5.00	100	0	89.8	54 - 118				
1,2-Diphenylhydrazine	87.2	5.00	100	0	87.2	57 - 134				
2,4,5-Trichlorophenol	88.92	5.00	100	0	88.9	52 - 115				
2,4,6-Trichlorophenol	93.9	5.00	100	0	93.9	56 - 115				
2,4-Dichlorophenol	90.77	5.00	100	0	90.8	53 - 115				
2,4-Dimethylphenol	97.76	5.00	100	0	97.8	53 - 115				
2,4-Dinitrophenol	100.9	5.00	100	0	101	47 - 115				
2,4-Dinitrotoluene	92.39	5.00	100	0	92.4	56 - 115				
2,6-Dinitrotoluene	89.92	5.00	100	0	89.9	57 - 115				
2-Chloronaphthalene	100.4	5.00	100	0	100	65 - 125				
2-Chlorophenol	87.36	5.00	100	0	87.4	54 - 115				
2-Methylphenol	85.97	5.00	100	0	86.0	53 - 115				
2-Nitrophenol	91.78	5.00	100	0	91.8	53 - 115				
3&4-Methylphenol	80.07	5.00	100	0	80.1	48 - 115				
3,3'-Dichlorobenzidine	84.06	5.00	100	0	84.1	25 - 115				
4,6-Dinitro-2-methylphenol	100.8	5.00	100	0	101	51 - 121				
4-Bromophenyl phenyl ether	94.63	5.00	100	0	94.6	49 - 115				
4-Chloro-3-methylphenol	88.24	5.00	100	0	88.2	51 - 115				
4-Chlorophenyl phenyl ether	91.27	5.00	100	0	91.3	56 - 115				
4-Nitrophenol	98.77	5.00	100	0	98.8	26 - 133				
Acenaphthene	90.3	5.00	100	0	90.3	57 - 115				
Acenaphthylene	93.02	5.00	100	0	93.0	57 - 118				
Anthracene	92.84	5.00	100	0	92.8	65 - 115				
Benz(a)anthracene	86.41	5.00	100	0	86.4	53 - 115				
Benidine	19.33	5.00	100	0	19.3	10 - 115				
Benzo(a)pyrene	89.35	5.00	100	0	89.3	57 - 115				
Benzo(b)fluoranthene	97.71	5.00	100	0	97.7	54 - 117				
Benzo(g,h,i)perylene	86.07	5.00	100	0	86.1	56 - 115				
Benzo(k)fluoranthene	88.75	5.00	100	0	88.7	50 - 115				
Bis(2-chloroethoxy)methane	97.64	5.00	100	0	97.6	54 - 115				
Bis(2-chloroethyl)ether	81.51	5.00	100	0	81.5	56 - 115				
Bis(2-chloroisopropyl)ether	70.1	5.00	100	0	70.1	48 - 115				
Bis(2-ethylhexyl)phthalate	83.58	5.00	100	0	83.6	50 - 115				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214091 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS-214091	Units: ug/L			Analysis Date: 26-Jun-2024 13:08					
Client ID:	Run ID: SV-4_470528	SeqNo: 8104056		PrepDate: 26-Jun-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Butyl benzyl phthalate	87.62	5.00	100	0	87.6	51 - 115				
Chrysene	85.31	5.00	100	0	85.3	52 - 120				
Dibenz(a,h)anthracene	87.83	5.00	100	0	87.8	56 - 115				
Diethyl phthalate	89.24	5.00	100	0	89.2	57 - 115				
Dimethyl phthalate	90.56	5.00	100	0	90.6	56 - 115				
Di-n-butyl phthalate	92.63	5.00	100	0	92.6	54 - 115				
Di-n-octyl phthalate	86.77	5.00	100	0	86.8	49 - 115				
Fluoranthene	90.48	5.00	100	0	90.5	58 - 115				
Fluorene	91.13	5.00	100	0	91.1	56 - 115				
Hexachlorobenzene	97.88	5.00	100	0	97.9	54 - 115				
Hexachlorobutadiene	94.13	5.00	100	0	94.1	51 - 115				
Hexachlorocyclopentadiene	98.6	5.00	100	0	98.6	48 - 115				
Hexachloroethane	84.81	5.00	100	0	84.8	54 - 115				
Indeno(1,2,3-cd)pyrene	89.4	5.00	100	0	89.4	51 - 115				
Isophorone	84.39	5.00	100	0	84.4	55 - 115				
Nitrobenzene	82.55	5.00	100	0	82.6	40 - 124				
N-Nitrosodiethylamine	43.03	5.00	50	0	86.1	40 - 130				
N-Nitrosodimethylamine	76.6	5.00	100	0	76.6	42 - 115				
N-Nitroso-di-n-butylamine	41.5	5.00	50	0	83.0	40 - 130				
N-Nitrosodi-n-propylamine	78.34	5.00	100	0	78.3	55 - 119				
N-Nitrosodiphenylamine	93.12	5.00	100	0	93.1	52 - 115				
Pentachlorobenzene	104.9	5.00	100	0	105	50 - 117			E	
Pentachlorophenol	102.8	5.00	100	0	103	45 - 125				
Phenanthrene	91.82	5.00	100	0	91.8	57 - 115				
Phenol	84.44	5.00	100	0	84.4	38 - 115				
Pyrene	89.58	5.00	100	0	89.6	54 - 119				
Pyridine	67.49	5.00	100	0	67.5	34 - 115				
Surr: 2,4,6-Tribromophenol	95.83	5.00	100	0	95.8	42 - 124				
Surr: 2-Fluorobiphenyl	97.83	5.00	100	0	97.8	48 - 120				
Surr: 2-Fluorophenol	88.37	5.00	100	0	88.4	20 - 120				
Surr: 4-Terphenyl-d14	91.62	5.00	100	0	91.6	51 - 135				
Surr: Nitrobenzene-d5	86.22	5.00	100	0	86.2	41 - 120				
Surr: Phenol-d6	86.93	5.00	100	0	86.9	20 - 120				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214091 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
<b>LCS</b>	Sample ID: <b>LCS1-214091</b>	Units: <b>ug/L</b>			Analysis Date: <b>26-Jun-2024 21:58</b>					
Client ID:	Run ID: <b>SV-4_470528</b>	SeqNo: <b>8104094</b>		PrepDate: <b>26-Jun-2024</b>		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Nonylphenol	54.06	5.00	50	0	108	40 - 140				
<i>Surr: 2,4,6-Tribromophenol</i>	88.8	5.00	100	0	88.8	42 - 124				
<i>Surr: 2-Fluorobiphenyl</i>	88.35	5.00	100	0	88.3	48 - 120				
<i>Surr: 2-Fluorophenol</i>	108.7	5.00	100	0	109	20 - 120				
<i>Surr: 4-Terphenyl-d14</i>	77.19	5.00	100	0	77.2	51 - 135				
<i>Surr: Nitrobenzene-d5</i>	86.51	5.00	100	0	86.5	41 - 120				
<i>Surr: Phenol-d6</i>	115.8	5.00	100	0	116	20 - 120				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214091 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCSD		Sample ID: LCSD-214091		Units: ug/L		Analysis Date: 26-Jun-2024 13:30				
Client ID:		Run ID: SV-4_470528		SeqNo: 8104057		PrepDate: 26-Jun-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	95.55	5.00	100	0	95.5	49 - 120	97.73	2.26	20	
1,2,4-Trichlorobenzene	88.91	5.00	100	0	88.9	54 - 118	89.76	0.954	20	
1,2-Diphenylhydrazine	87.59	5.00	100	0	87.6	57 - 134	87.2	0.436	20	
2,4,5-Trichlorophenol	92.24	5.00	100	0	92.2	52 - 115	88.92	3.66	20	
2,4,6-Trichlorophenol	94.3	5.00	100	0	94.3	56 - 115	93.9	0.429	20	
2,4-Dichlorophenol	96.62	5.00	100	0	96.6	53 - 115	90.77	6.24	20	
2,4-Dimethylphenol	102.2	5.00	100	0	102	53 - 115	97.76	4.47	20	
2,4-Dinitrophenol	100.1	5.00	100	0	100	47 - 115	100.9	0.762	20	
2,4-Dinitrotoluene	92.58	5.00	100	0	92.6	56 - 115	92.39	0.204	20	
2,6-Dinitrotoluene	90.33	5.00	100	0	90.3	57 - 115	89.92	0.449	20	
2-Chloronaphthalene	97.73	5.00	100	0	97.7	65 - 125	100.4	2.74	20	
2-Chlorophenol	93.51	5.00	100	0	93.5	54 - 115	87.36	6.81	20	
2-Methylphenol	97.11	5.00	100	0	97.1	53 - 115	85.97	12.2	20	
2-Nitrophenol	93.33	5.00	100	0	93.3	53 - 115	91.78	1.67	20	
3&4-Methylphenol	93.22	5.00	100	0	93.2	48 - 115	80.07	15.2	20	
3,3'-Dichlorobenzidine	88.81	5.00	100	0	88.8	25 - 115	84.06	5.49	20	
4,6-Dinitro-2-methylphenol	98.19	5.00	100	0	98.2	51 - 121	100.8	2.67	20	
4-Bromophenyl phenyl ether	96	5.00	100	0	96.0	49 - 115	94.63	1.44	20	
4-Chloro-3-methylphenol	95.83	5.00	100	0	95.8	51 - 115	88.24	8.25	20	
4-Chlorophenyl phenyl ether	93.48	5.00	100	0	93.5	56 - 115	91.27	2.4	20	
4-Nitrophenol	95.09	5.00	100	0	95.1	26 - 133	98.77	3.8	20	
Acenaphthene	91.59	5.00	100	0	91.6	57 - 115	90.3	1.42	20	
Acenaphthylene	93.37	5.00	100	0	93.4	57 - 118	93.02	0.379	20	
Anthracene	90.65	5.00	100	0	90.7	65 - 115	92.84	2.39	20	
Benz(a)anthracene	87.09	5.00	100	0	87.1	53 - 115	86.41	0.792	20	
Benzdine	19.31	5.00	100	0	19.3	10 - 115	19.33	0.133	20	
Benzo(a)pyrene	88.85	5.00	100	0	88.9	57 - 115	89.35	0.559	20	
Benzo(b)fluoranthene	99.99	5.00	100	0	100.0	54 - 117	97.71	2.3	20	
Benzo(g,h,i)perylene	84.07	5.00	100	0	84.1	56 - 115	86.07	2.34	20	
Benzo(k)fluoranthene	85.81	5.00	100	0	85.8	50 - 115	88.75	3.36	20	
Bis(2-chloroethoxy)methane	101.3	5.00	100	0	101	54 - 115	97.64	3.66	20	
Bis(2-chloroethyl)ether	88.11	5.00	100	0	88.1	56 - 115	81.51	7.79	20	
Bis(2-chloroisopropyl)ether	74.18	5.00	100	0	74.2	48 - 115	70.1	5.66	20	
Bis(2-ethylhexyl)phthalate	88.99	5.00	100	0	89.0	50 - 115	83.58	6.27	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214091 ( 0 )										
Instrument: SV-4				Method: SEMIVOLATILE						
LCSD		Sample ID: LCSD-214091			Units: ug/L		Analysis Date: 26-Jun-2024 13:30			
Client ID:		Run ID: SV-4_470528			SeqNo: 8104057		PrepDate: 26-Jun-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Butyl benzyl phthalate	89.71	5.00	100	0	89.7	51 - 115	87.62	2.37	20	
Chrysene	86.56	5.00	100	0	86.6	52 - 120	85.31	1.46	20	
Dibenz(a,h)anthracene	87.6	5.00	100	0	87.6	56 - 115	87.83	0.267	20	
Diethyl phthalate	91.02	5.00	100	0	91.0	57 - 115	89.24	1.98	20	
Dimethyl phthalate	91.51	5.00	100	0	91.5	56 - 115	90.56	1.04	20	
Di-n-butyl phthalate	94.61	5.00	100	0	94.6	54 - 115	92.63	2.12	20	
Di-n-octyl phthalate	89.14	5.00	100	0	89.1	49 - 115	86.77	2.7	20	
Fluoranthene	88.99	5.00	100	0	89.0	58 - 115	90.48	1.65	20	
Fluorene	92.98	5.00	100	0	93.0	56 - 115	91.13	2.01	20	
Hexachlorobenzene	97.45	5.00	100	0	97.4	54 - 115	97.88	0.443	20	
Hexachlorobutadiene	91.94	5.00	100	0	91.9	51 - 115	94.13	2.36	20	
Hexachlorocyclopentadiene	92.94	5.00	100	0	92.9	48 - 115	98.6	5.91	20	
Hexachloroethane	88	5.00	100	0	88.0	54 - 115	84.81	3.69	20	
Indeno(1,2,3-cd)pyrene	88.26	5.00	100	0	88.3	51 - 115	89.4	1.28	20	
Isophorone	87.83	5.00	100	0	87.8	55 - 115	84.39	4	20	
Nitrobenzene	82.57	5.00	100	0	82.6	40 - 124	82.55	0.0187	20	
N-Nitrosodiethylamine	44.96	5.00	50	0	89.9	40 - 130	43.03	4.38	20	
N-Nitrosodimethylamine	71.21	5.00	100	0	71.2	42 - 115	76.6	7.3	20	
N-Nitroso-di-n-butylamine	46.96	5.00	50	0	93.9	40 - 130	41.5	12.4	20	
N-Nitrosodi-n-propylamine	90.56	5.00	100	0	90.6	55 - 119	78.34	14.5	20	
N-Nitrosodiphenylamine	93.41	5.00	100	0	93.4	52 - 115	93.12	0.314	20	
Pentachlorobenzene	106.2	5.00	100	0	106	50 - 117	104.9	1.25	20	E
Pentachlorophenol	101.8	5.00	100	0	102	45 - 125	102.8	0.93	20	
Phenanthrene	90.55	5.00	100	0	90.6	57 - 115	91.82	1.4	20	
Phenol	92.18	5.00	100	0	92.2	38 - 115	84.44	8.77	20	
Pyrene	89.06	5.00	100	0	89.1	54 - 119	89.58	0.581	20	
Pyridine	64.2	5.00	100	0	64.2	34 - 115	67.49	4.98	20	
Surr: 2,4,6-Tribromophenol	96.75	5.00	100	0	96.8	42 - 124	95.83	0.963	20	
Surr: 2-Fluorobiphenyl	97.23	5.00	100	0	97.2	48 - 120	97.83	0.612	20	
Surr: 2-Fluorophenol	88.4	5.00	100	0	88.4	20 - 120	88.37	0.0299	20	
Surr: 4-Terphenyl-d14	92.45	5.00	100	0	92.5	51 - 135	91.62	0.902	20	
Surr: Nitrobenzene-d5	86.81	5.00	100	0	86.8	41 - 120	86.22	0.686	20	
Surr: Phenol-d6	94.91	5.00	100	0	94.9	20 - 120	86.93	8.78	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: 214091 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCSD	Sample ID: LCSD1-214091	Units: ug/L			Analysis Date: 26-Jun-2024 22:20					
Client ID:	Run ID: SV-4_470528	SeqNo: 8104095		PrepDate: 26-Jun-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nonylphenol	54.12	5.00	50	0	108	40 - 140	54.06	0.111	20	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>94.68</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>94.7</i>	<i>42 - 124</i>	<i>88.8</i>	<i>6.41</i>	<i>20</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>86.16</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>86.2</i>	<i>48 - 120</i>	<i>88.35</i>	<i>2.5</i>	<i>20</i>	
<i>Surr: 2-Fluorophenol</i>	<i>109.5</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>109</i>	<i>20 - 120</i>	<i>108.7</i>	<i>0.66</i>	<i>20</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>86.72</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>86.7</i>	<i>51 - 135</i>	<i>77.19</i>	<i>11.6</i>	<i>20</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>86.64</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>86.6</i>	<i>41 - 120</i>	<i>86.51</i>	<i>0.151</i>	<i>20</i>	
<i>Surr: Phenol-d6</i>	<i>113.8</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>114</i>	<i>20 - 120</i>	<i>115.8</i>	<i>1.79</i>	<i>20</i>	

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470227 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MBLK	Sample ID: VBLKW-240622	Units: ug/L			Analysis Date: 22-Jun-2024 14:50					
Client ID:	Run ID: VOA9_470227	SeqNo: 8093901	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.00								
1,1,2,2-Tetrachloroethane	U	5.00								
1,1,2-Trichloroethane	U	5.00								
1,1-Dichloroethane	U	5.00								
1,1-Dichloroethene	U	5.00								
1,2-Dibromoethane	U	5.00								
1,2-Dichlorobenzene	U	5.00								
1,2-Dichloroethane	U	5.00								
1,2-Dichloropropane	U	5.00								
1,3-Dichlorobenzene	U	5.00								
1,4-Dichlorobenzene	U	5.00								
2-Butanone	U	10.0								
2-Chloroethyl vinyl ether	U	10.0								
Acrolein	U	20.0								
Acrylonitrile	U	10.0								
Benzene	U	5.00								
Bromodichloromethane	U	5.00								
Bromoform	U	5.00								
Bromomethane	U	5.00								
Carbon tetrachloride	U	5.00								
Chlorobenzene	U	5.00								
Chloroethane	U	5.00								
Chloroform	U	5.00								
Chloromethane	U	5.00								
cis-1,3-Dichloropropene	U	5.00								
Dibromochloromethane	U	5.00								
Ethylbenzene	U	5.00								
m,p-Xylene	U	10.0								
Methylene chloride	U	10.0								
Naphthalene	U	5.00								
o-Xylene	U	5.00								
Tetrachloroethene	U	5.00								
Toluene	U	5.00								
trans-1,2-Dichloroethene	U	5.00								

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470227 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MBLK	Sample ID: VBLKW-240622	Units: ug/L			Analysis Date: 22-Jun-2024 14:50					
Client ID:	Run ID: VOA9_470227	SeqNo: 8093901		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	U	5.00								
Trichloroethene	U	5.00								
Vinyl chloride	U	2.00								
1,3-Dichloropropene, Total	U	5.00								
Xylenes, Total	U	5.00								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.48</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.52</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 124</i>				
<i>Surr: Dibromofluoromethane</i>	<i>53.08</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>106</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>55.74</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>111</i>	<i>82 - 127</i>				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470227 ( 0 )		Instrument: VOA9			Method: VOLATILES					
LCS	Sample ID: VLCSW-240622	Units: ug/L			Analysis Date: 22-Jun-2024 13:46					
Client ID:	Run ID: VOA9_470227	SeqNo: 8093899			PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	17.33	5.00	20	0	86.7	70 - 130				
1,1,2,2-Tetrachloroethane	16.25	5.00	20	0	81.3	70 - 120				
1,1,2-Trichloroethane	15.75	5.00	20	0	78.8	77 - 113				
1,1-Dichloroethane	17.08	5.00	20	0	85.4	71 - 122				
1,1-Dichloroethene	16.92	5.00	20	0	84.6	70 - 130				
1,2-Dibromoethane	16.08	5.00	20	0	80.4	76 - 123				
1,2-Dichlorobenzene	16.32	5.00	20	0	81.6	77 - 113				
1,2-Dichloroethane	16.43	5.00	20	0	82.2	70 - 124				
1,2-Dichloropropane	15.56	5.00	20	0	77.8	72 - 119				
1,3-Dichlorobenzene	16.64	5.00	20	0	83.2	78 - 118				
1,4-Dichlorobenzene	17.75	5.00	20	0	88.7	79 - 113				
2-Butanone	30.58	10.0	40	0	76.4	70 - 130				
2-Chloroethyl vinyl ether	38.24	10.0	40	0	95.6	60 - 135				
Acrolein	36.44	20.0	40	0	91.1	70 - 130				
Acrylonitrile	34.41	10.0	40	0	86.0	70 - 130				
Benzene	15.63	5.00	20	0	78.2	74 - 120				
Bromodichloromethane	16.18	5.00	20	0	80.9	74 - 122				
Bromoform	16.31	5.00	20	0	81.6	73 - 128				
Bromomethane	21.63	5.00	20	0	108	70 - 130				
Carbon tetrachloride	17.29	5.00	20	0	86.4	71 - 125				
Chlorobenzene	17.45	5.00	20	0	87.2	76 - 113				
Chloroethane	17.03	5.00	20	0	85.1	70 - 130				
Chloroform	16.27	5.00	20	0	81.3	71 - 121				
Chloromethane	15.55	5.00	20	0	77.8	70 - 129				
cis-1,3-Dichloropropene	15.94	5.00	20	0	79.7	73 - 127				
Dibromochloromethane	17.16	5.00	20	0	85.8	77 - 122				
Ethylbenzene	17.25	5.00	20	0	86.3	77 - 117				
m,p-Xylene	37.14	10.0	40	0	92.8	77 - 122				
Methylene chloride	16.07	10.0	20	0	80.3	70 - 127				
Naphthalene	17.09	5.00	20	0	85.5	70 - 130				
o-Xylene	18.16	5.00	20	0	90.8	75 - 119				
Tetrachloroethene	18.41	5.00	20	0	92.0	76 - 119				
Toluene	16.86	5.00	20	0	84.3	77 - 118				
trans-1,2-Dichloroethene	17.04	5.00	20	0	85.2	72 - 127				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470227 ( 0 )		Instrument: VOA9		Method: VOLATILES						
<b>LCS</b>	Sample ID: <b>VLCSW-240622</b>	Units: <b>ug/L</b>			Analysis Date: <b>22-Jun-2024 13:46</b>					
Client ID:	Run ID: <b>VOA9_470227</b>	SeqNo: <b>8093899</b>		PrepDate:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
trans-1,3-Dichloropropene	15.87	5.00	20	0	79.3	77 - 119				
Trichloroethene	17.09	5.00	20	0	85.5	79 - 120				
Vinyl chloride	17.15	2.00	20	0	85.8	70 - 130				
1,3-Dichloropropene, Total	31.8	5.00	40	0	79.5	70 - 130				
Xylenes, Total	55.29	5.00	60	0	92.2	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.6</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>99.2</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>54.09</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>108</i>	<i>83 - 122</i>				
<i>Surr: Dibromofluoromethane</i>	<i>54.21</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>108</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>55.77</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>112</i>	<i>81 - 119</i>				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470227 ( 0 )		Instrument: VOA9			Method: VOLATILES					
MS	Sample ID: HS24060905-08MS	Units: ug/L			Analysis Date: 22-Jun-2024 21:03					
Client ID:	Run ID: VOA9_470227	SeqNo: 8093905			PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	17.19	5.00	20	0	86.0	70 - 130				
1,1,2,2-Tetrachloroethane	16.38	5.00	20	0	81.9	70 - 123				
1,1,2-Trichloroethane	15.53	5.00	20	0	77.6	70 - 117				
1,1-Dichloroethane	15.48	5.00	20	0	77.4	70 - 127				
1,1-Dichloroethene	15.5	5.00	20	0	77.5	70 - 130				
1,2-Dibromoethane	16.15	5.00	20	0	80.7	70 - 124				
1,2-Dichlorobenzene	14.81	5.00	20	0	74.1	70 - 115				
1,2-Dichloroethane	16.14	5.00	20	0	80.7	70 - 127				
1,2-Dichloropropane	13.93	5.00	20	0	69.7	70 - 122				S
1,3-Dichlorobenzene	14.96	5.00	20	0	74.8	70 - 119				
1,4-Dichlorobenzene	15.82	5.00	20	0	79.1	70 - 114				
2-Butanone	32.82	10.0	40	0	82.1	70 - 130				
2-Chloroethyl vinyl ether	49.22	10.0	40	0	123	65 - 135				
Acrolein	35.03	20.0	40	0	87.6	70 - 130				
Acrylonitrile	34.77	10.0	40	0	86.9	70 - 130				
Benzene	15.18	5.00	20	0	75.9	70 - 127				
Bromodichloromethane	14.41	5.00	20	0	72.0	70 - 124				
Bromoform	15.9	5.00	20	0	79.5	70 - 129				
Bromomethane	19.08	5.00	20	0	95.4	70 - 130				
Carbon tetrachloride	16.44	5.00	20	0	82.2	70 - 130				
Chlorobenzene	16.38	5.00	20	0	81.9	70 - 114				
Chloroethane	14.94	5.00	20	0	74.7	70 - 130				
Chloroform	16.35	5.00	20	0	81.7	70 - 125				
Chloromethane	15.11	5.00	20	0	75.5	70 - 130				
cis-1,3-Dichloropropene	14.03	5.00	20	0	70.2	70 - 125				
Dibromochloromethane	16.42	5.00	20	0	82.1	70 - 124				
Ethylbenzene	16.21	5.00	20	0	81.1	70 - 124				
m,p-Xylene	33.26	10.0	40	0	83.2	70 - 130				
Methylene chloride	16.5	10.0	20	0	82.5	70 - 128				
Naphthalene	14.37	5.00	20	0	71.9	70 - 130				
o-Xylene	16.64	5.00	20	0	83.2	70 - 124				
Tetrachloroethene	17.2	5.00	20	0	86.0	70 - 130				
Toluene	15.86	5.00	20	0	79.3	70 - 123				
trans-1,2-Dichloroethene	15.56	5.00	20	0	77.8	70 - 130				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470227 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MS	Sample ID: HS24060905-08MS	Units: ug/L			Analysis Date: 22-Jun-2024 21:03					
Client ID:	Run ID: VOA9_470227	SeqNo: 8093905		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	14.04	5.00	20	0	70.2	70 - 121				
Trichloroethene	15.98	5.00	20	0	79.9	70 - 129				
Vinyl chloride	16.16	2.00	20	0	80.8	70 - 130				
1,3-Dichloropropene, Total	28.08	5.00	40	0	70.2	70 - 130				
Xylenes, Total	49.91	5.00	60	0	83.2	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>53.39</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>107</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>54.2</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>108</i>	<i>82 - 124</i>				
<i>Surr: Dibromofluoromethane</i>	<i>55.84</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>112</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>57.15</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>114</i>	<i>82 - 127</i>				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470227 ( 0 )		Instrument: VOA9			Method: VOLATILES					
MSD	Sample ID: HS24060905-08MSD	Units: ug/L			Analysis Date: 22-Jun-2024 21:24					
Client ID:	Run ID: VOA9_470227	SeqNo: 8093906		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	16.09	5.00	20	0	80.5	70 - 130	17.19	6.63	20	
1,1,2,2-Tetrachloroethane	15.85	5.00	20	0	79.3	70 - 123	16.38	3.24	20	
1,1,2-Trichloroethane	14.99	5.00	20	0	74.9	70 - 117	15.53	3.57	20	
1,1-Dichloroethane	15.24	5.00	20	0	76.2	70 - 127	15.48	1.6	20	
1,1-Dichloroethene	15.43	5.00	20	0	77.2	70 - 130	15.5	0.436	20	
1,2-Dibromoethane	15.23	5.00	20	0	76.2	70 - 124	16.15	5.82	20	
1,2-Dichlorobenzene	14.6	5.00	20	0	73.0	70 - 115	14.81	1.43	20	
1,2-Dichloroethane	14.91	5.00	20	0	74.5	70 - 127	16.14	7.94	20	
1,2-Dichloropropane	14.35	5.00	20	0	71.8	70 - 122	13.93	2.96	20	
1,3-Dichlorobenzene	14.4	5.00	20	0	72.0	70 - 119	14.96	3.83	20	
1,4-Dichlorobenzene	15.14	5.00	20	0	75.7	70 - 114	15.82	4.43	20	
2-Butanone	30.42	10.0	40	0	76.0	70 - 130	32.82	7.61	20	
2-Chloroethyl vinyl ether	44.42	10.0	40	0	111	65 - 135	49.22	10.3	20	
Acrolein	29.85	20.0	40	0	74.6	70 - 130	35.03	16	20	
Acrylonitrile	34.81	10.0	40	0	87.0	70 - 130	34.77	0.101	20	
Benzene	14.11	5.00	20	0	70.6	70 - 127	15.18	7.24	20	
Bromodichloromethane	14.89	5.00	20	0	74.4	70 - 124	14.41	3.25	20	
Bromoform	15.02	5.00	20	0	75.1	70 - 129	15.9	5.7	20	
Bromomethane	18.64	5.00	20	0	93.2	70 - 130	19.08	2.38	20	
Carbon tetrachloride	16.18	5.00	20	0	80.9	70 - 130	16.44	1.58	20	
Chlorobenzene	15.55	5.00	20	0	77.8	70 - 114	16.38	5.17	20	
Chloroethane	14.22	5.00	20	0	71.1	70 - 130	14.94	4.97	20	
Chloroform	15.17	5.00	20	0	75.8	70 - 125	16.35	7.49	20	
Chloromethane	14.65	5.00	20	0	73.2	70 - 130	15.11	3.1	20	
cis-1,3-Dichloropropene	14.1	5.00	20	0	70.5	70 - 125	14.03	0.465	20	
Dibromochloromethane	15.62	5.00	20	0	78.1	70 - 124	16.42	4.96	20	
Ethylbenzene	15.2	5.00	20	0	76.0	70 - 124	16.21	6.45	20	
m,p-Xylene	32.05	10.0	40	0	80.1	70 - 130	33.26	3.72	20	
Methylene chloride	15.84	10.0	20	0	79.2	70 - 128	16.5	4.06	20	
Naphthalene	15.3	5.00	20	0	76.5	70 - 130	14.37	6.25	20	
o-Xylene	16	5.00	20	0	80.0	70 - 124	16.64	3.94	20	
Tetrachloroethene	16.07	5.00	20	0	80.3	70 - 130	17.2	6.8	20	
Toluene	15.3	5.00	20	0	76.5	70 - 123	15.86	3.61	20	
trans-1,2-Dichloroethene	15.55	5.00	20	0	77.8	70 - 130	15.56	0.0864	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470227 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MSD	Sample ID: HS24060905-08MSD	Units: ug/L			Analysis Date: 22-Jun-2024 21:24					
Client ID:	Run ID: VOA9_470227	SeqNo: 8093906		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	14.12	5.00	20	0	70.6	70 - 121	14.04	0.549	20	
Trichloroethene	15.51	5.00	20	0	77.6	70 - 129	15.98	2.95	20	
Vinyl chloride	15.29	2.00	20	0	76.5	70 - 130	16.16	5.53	20	
1,3-Dichloropropene, Total	28.22	5.00	40	0	70.6	70 - 130	28.08	0.507	30	
Xylenes, Total	48.05	5.00	60	0	80.1	70 - 130	49.91	3.79	20	
Surr: 1,2-Dichloroethane-d4	50	5.00	50	0	100	70 - 126	53.39	6.55	20	
Surr: 4-Bromofluorobenzene	52.68	5.00	50	0	105	82 - 124	54.2	2.86	20	
Surr: Dibromofluoromethane	53.83	5.00	50	0	108	77 - 123	55.84	3.66	20	
Surr: Toluene-d8	56.91	5.00	50	0	114	82 - 127	57.15	0.435	20	

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

<b>Batch ID:</b> 213960 ( 0 )	<b>Instrument:</b> Skalar 02	<b>Method:</b> CBOD BY SM5210B-2011
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<b>MBLK</b>	Sample ID: <b>MBLK-213960</b>	Units: <b>mg/L</b>	Analysis Date: <b>27-Jun-2024 15:41</b>							
Client ID:	Run ID: <b>Skalar 02_470627</b>	SeqNo: <b>8103391</b>	PrepDate: <b>22-Jun-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	U	2.00								

<b>LCS</b>	Sample ID: <b>LCS-213960</b>	Units: <b>mg/L</b>	Analysis Date: <b>27-Jun-2024 15:41</b>							
Client ID:	Run ID: <b>Skalar 02_470627</b>	SeqNo: <b>8103390</b>	PrepDate: <b>22-Jun-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	193.8	2.00	198	0	97.9	84.6 - 115.4				

<b>DUP</b>	Sample ID: <b>HS24061385-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>27-Jun-2024 15:41</b>							
Client ID:	Run ID: <b>Skalar 02_470627</b>	SeqNo: <b>8103389</b>	PrepDate: <b>22-Jun-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	3.91	2.00					3.81	2.59	20	

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

**Batch ID:** 213962 ( 0 )      **Instrument:** Skalar 02      **Method:** BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011

<b>MBLK</b>	Sample ID: <b>MBLK-213962</b>	Units: <b>mg/L</b>			Analysis Date: <b>27-Jun-2024 15:38</b>				
Client ID:		Run ID: <b>Skalar 02_470626</b>	SeqNo: <b>8103376</b>	PrepDate: <b>22-Jun-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Biochemical Oxygen Demand      U      2.00

<b>LCS</b>	Sample ID: <b>LCS-213962</b>	Units: <b>mg/L</b>			Analysis Date: <b>27-Jun-2024 15:38</b>				
Client ID:		Run ID: <b>Skalar 02_470626</b>	SeqNo: <b>8103375</b>	PrepDate: <b>22-Jun-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Biochemical Oxygen Demand      170.9      2.00      198      0      86.3 84.6 - 115.4

<b>DUP</b>	Sample ID: <b>HS24061361-01DUP</b>	Units: <b>mg/L</b>			Analysis Date: <b>27-Jun-2024 15:38</b>				
Client ID:		Run ID: <b>Skalar 02_470626</b>	SeqNo: <b>8103374</b>	PrepDate: <b>22-Jun-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Biochemical Oxygen Demand      U      2.00      0.42      0 20

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

<b>Batch ID:</b> 214593 ( 0 )	<b>Instrument:</b> UV-2450	<b>Method:</b> AMMONIA AS N BY SM4500 NH3-B-F-2011
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<b>MBLK</b>	Sample ID: <b>MBLK-214593</b>	Units: <b>mg/L</b>	Analysis Date: <b>09-Jul-2024 15:24</b>							
Client ID:	Run ID: <b>UV-2450_471496</b>	SeqNo: <b>8128797</b>	PrepDate: <b>09-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Nitrogen, Ammonia (as N) U 0.050

<b>LCS</b>	Sample ID: <b>LCS-214593</b>	Units: <b>mg/L</b>	Analysis Date: <b>09-Jul-2024 15:24</b>							
Client ID:	Run ID: <b>UV-2450_471496</b>	SeqNo: <b>8128796</b>	PrepDate: <b>09-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Nitrogen, Ammonia (as N) 0.48 0.050 0.5 0 96.0 85 - 115

<b>MS</b>	Sample ID: <b>HS24061796-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>09-Jul-2024 15:24</b>							
Client ID:	Run ID: <b>UV-2450_471496</b>	SeqNo: <b>8128794</b>	PrepDate: <b>09-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Nitrogen, Ammonia (as N) 0.494 0.050 0.5 0.01 96.8 80 - 120

<b>MS</b>	Sample ID: <b>HS24061516-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>09-Jul-2024 15:24</b>							
Client ID:	Run ID: <b>UV-2450_471496</b>	SeqNo: <b>8128792</b>	PrepDate: <b>09-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Nitrogen, Ammonia (as N) 0.93 0.050 0.5 0.443 97.4 80 - 120

<b>MSD</b>	Sample ID: <b>HS24061796-01MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>09-Jul-2024 15:24</b>							
Client ID:	Run ID: <b>UV-2450_471496</b>	SeqNo: <b>8128795</b>	PrepDate: <b>09-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Nitrogen, Ammonia (as N) 0.501 0.050 0.5 0.01 98.2 80 - 120 0.494 1.41 20

<b>MSD</b>	Sample ID: <b>HS24061516-01MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>09-Jul-2024 15:24</b>							
Client ID:	Run ID: <b>UV-2450_471496</b>	SeqNo: <b>8128793</b>	PrepDate: <b>09-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Nitrogen, Ammonia (as N) 0.94 0.050 0.5 0.443 99.4 80 - 120 0.93 1.07 20

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

<b>Batch ID:</b> 214632 ( 0 )		<b>Instrument:</b> UV-2450		<b>Method:</b> PHOSPHORUS BY E365.3-1978					
<b>MBLK</b>	Sample ID: <b>MBLK-214632</b>	Units: <b>mg/L</b>		Analysis Date: <b>09-Jul-2024 16:00</b>					
Client ID:	Run ID: <b>UV-2450_471519</b>	SeqNo: <b>8129211</b>		PrepDate: <b>09-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) U 0.0500

<b>LCS</b>	Sample ID: <b>LCS-214632</b>	Units: <b>mg/L</b>		Analysis Date: <b>09-Jul-2024 16:00</b>					
Client ID:	Run ID: <b>UV-2450_471519</b>	SeqNo: <b>8129210</b>		PrepDate: <b>09-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) 0.25 0.0500 0.25 0 100 80 - 120

<b>MS</b>	Sample ID: <b>HS24061492-04MS</b>	Units: <b>mg/L</b>		Analysis Date: <b>09-Jul-2024 16:00</b>					
Client ID:	Run ID: <b>UV-2450_471519</b>	SeqNo: <b>8129208</b>		PrepDate: <b>09-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) 0.286 0.0500 0.25 0 114 80 - 120

<b>MSD</b>	Sample ID: <b>HS24061492-04MSD</b>	Units: <b>mg/L</b>		Analysis Date: <b>09-Jul-2024 16:00</b>					
Client ID:	Run ID: <b>UV-2450_471519</b>	SeqNo: <b>8129209</b>		PrepDate: <b>09-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) 0.268 0.0500 0.25 0 107 80 - 120 0.286 6.5 20

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

**Batch ID:** 214643 ( 0 )      **Instrument:** WetChem\_HS      **Method:** TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011

<b>MBLK</b>	Sample ID: <b>MBLK-214643</b>	Units: <b>mg/L</b>				Analysis Date: <b>09-Jul-2024 15:00</b>				
Client ID:		Run ID: <b>WetChem_HS_471524</b>	SeqNo: <b>8129517</b>	PrepDate: <b>09-Jul-2024</b>	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl      U      0.50

<b>LCS</b>	Sample ID: <b>LCS-214643</b>	Units: <b>mg/L</b>				Analysis Date: <b>09-Jul-2024 15:00</b>				
Client ID:		Run ID: <b>WetChem_HS_471524</b>	SeqNo: <b>8129516</b>	PrepDate: <b>09-Jul-2024</b>	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl      20.17      0.50      20      0      101      85 - 115

<b>MS</b>	Sample ID: <b>HS24061328-01MS</b>	Units: <b>mg/L</b>				Analysis Date: <b>09-Jul-2024 15:00</b>				
Client ID:		Run ID: <b>WetChem_HS_471524</b>	SeqNo: <b>8129514</b>	PrepDate: <b>09-Jul-2024</b>	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl      21.24      0.50      20      1.47      98.8      75 - 125

<b>MSD</b>	Sample ID: <b>HS24061328-01MSD</b>	Units: <b>mg/L</b>				Analysis Date: <b>09-Jul-2024 15:00</b>				
Client ID:		Run ID: <b>WetChem_HS_471524</b>	SeqNo: <b>8129515</b>	PrepDate: <b>09-Jul-2024</b>	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl      21.17      0.50      20      1.47      98.5      75 - 125      21.24      0.349      20

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470208 ( 0 )		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
<b>MBLK</b>	Sample ID: <b>MBLK</b>	Units: <b>mg/L</b>			Analysis Date: <b>22-Jun-2024 15:59</b>					
Client ID:		Run ID: <b>ICS-Integrion_470208</b>		SeqNo: <b>8093541</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Bromide	U	0.100								
Chloride	U	0.500								
Fluoride	U	0.100								
Nitrogen, Nitrate (As N)	U	0.100								
Sulfate	U	0.500								
<b>LCS</b>	Sample ID: <b>LCS</b>	Units: <b>mg/L</b>			Analysis Date: <b>22-Jun-2024 16:05</b>					
Client ID:		Run ID: <b>ICS-Integrion_470208</b>		SeqNo: <b>8093542</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Bromide	4.248	0.100	4	0	106	90 - 110				
Chloride	21.17	0.500	20	0	106	90 - 110				
Fluoride	4.363	0.100	4	0	109	90 - 110				
Nitrogen, Nitrate (As N)	4.203	0.100	4	0	105	90 - 110				
Sulfate	21.87	0.500	20	0	109	90 - 110				
<b>MS</b>	Sample ID: <b>HS24061398-21MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>22-Jun-2024 17:28</b>					
Client ID:		Run ID: <b>ICS-Integrion_470208</b>		SeqNo: <b>8093552</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Bromide	0.3293	0.100	2	0	16.5	80 - 120			S	
Chloride	23.29	0.500	10	13.45	98.4	80 - 120				
Fluoride	2.896	0.100	2	0.896	100.0	80 - 120				
Nitrogen, Nitrate (As N)	2.168	0.100	2	0.214	97.7	80 - 120				
Sulfate	382.9	0.500	10	387.4	-44.6	80 - 120			SEO	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470208 ( 0 )		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
<b>MS</b>		Sample ID: <b>HS24061356-01MS</b>		Units: <b>mg/L</b>		Analysis Date: <b>22-Jun-2024 16:29</b>				
Client ID: <b>SB-57</b>		Run ID: <b>ICS-Integrion_470208</b>		SeqNo: <b>8093545</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.3	0.100	2	1.166	107	80 - 120				
Chloride	57.95	0.500	10	48.96	89.9	80 - 120				O
Fluoride	2.151	0.100	2	0.3541	89.8	80 - 120				
Nitrogen, Nitrate (As N)	1.9	0.100	2	0.0412	93.0	80 - 120				
Sulfate	10.92	0.500	10	0.2295	107	80 - 120				
<b>MSD</b>		Sample ID: <b>HS24061398-21MSD</b>		Units: <b>mg/L</b>		Analysis Date: <b>22-Jun-2024 17:34</b>				
Client ID:		Run ID: <b>ICS-Integrion_470208</b>		SeqNo: <b>8093553</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	0.3349	0.100	2	0	16.7	80 - 120	0.3293	1.69	20	S
Chloride	23.32	0.500	10	13.45	98.7	80 - 120	23.29	0.133	20	
Fluoride	2.871	0.100	2	0.896	98.8	80 - 120	2.896	0.839	20	
Nitrogen, Nitrate (As N)	2.175	0.100	2	0.214	98.0	80 - 120	2.168	0.322	20	
Sulfate	384.2	0.500	10	387.4	-32.2	80 - 120	382.9	0.324	20	SEO
<b>MSD</b>		Sample ID: <b>HS24061356-01MSD</b>		Units: <b>mg/L</b>		Analysis Date: <b>22-Jun-2024 16:35</b>				
Client ID: <b>SB-57</b>		Run ID: <b>ICS-Integrion_470208</b>		SeqNo: <b>8093546</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	3.238	0.100	2	1.166	104	80 - 120	3.3	1.89	20	
Chloride	57.67	0.500	10	48.96	87.1	80 - 120	57.95	0.484	20	O
Fluoride	2.132	0.100	2	0.3541	88.9	80 - 120	2.151	0.878	20	
Nitrogen, Nitrate (As N)	1.889	0.100	2	0.0412	92.4	80 - 120	1.9	0.581	20	
Sulfate	10.56	0.500	10	0.2295	103	80 - 120	10.92	3.35	20	

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

**Batch ID:** R470255 ( 0 )      **Instrument:** Skalar 02      **Method:** DISSOLVED OXYGEN BY SM4500-O G

<b>DUP</b>	Sample ID: <b>HS24061356-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>24-Jun-2024 13:12</b>							
Client ID: <b>SB-57</b>	Run ID: <b>Skalar 02_470255</b>	SeqNo: <b>8094299</b>	PrepDate:      DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Oxygen, Dissolved	5.02	1.00					5.17	2.94	20	
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The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

**Batch ID:** R470333 ( 0 )      **Instrument:** UV-2450      **Method:** HEXAVALENT CHROMIUM BY SW7196A

<b>MBLK</b>	Sample ID: <b>MBLK-R470333</b>	Units: <b>mg/L</b>			Analysis Date: <b>25-Jun-2024 09:05</b>				
Client ID:		Run ID: <b>UV-2450_470333</b>		SeqNo: <b>8096209</b>	PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Chromium, Hexavalent      U      0.0100

<b>LCS</b>	Sample ID: <b>LCS-R470333</b>	Units: <b>mg/L</b>			Analysis Date: <b>25-Jun-2024 09:05</b>				
Client ID:		Run ID: <b>UV-2450_470333</b>		SeqNo: <b>8096208</b>	PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Chromium, Hexavalent      0.25      0.0100      0.25      0      100      80 - 120

<b>MS</b>	Sample ID: <b>HS24061356-01MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>25-Jun-2024 09:05</b>				
Client ID: <b>SB-57</b>		Run ID: <b>UV-2450_470333</b>		SeqNo: <b>8096211</b>	PrepDate:		DF: <b>10</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Chromium, Hexavalent      2.47      0.100      2.5      0      98.8      86 - 117

<b>MSD</b>	Sample ID: <b>HS24061356-01MSD</b>	Units: <b>mg/L</b>			Analysis Date: <b>25-Jun-2024 09:05</b>				
Client ID: <b>SB-57</b>		Run ID: <b>UV-2450_470333</b>		SeqNo: <b>8096210</b>	PrepDate:		DF: <b>10</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Chromium, Hexavalent      2.44      0.100      2.5      0      97.6      86 - 117      2.47      1.22      15

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

**Batch ID:** R470573 ( 0 )      **Instrument:** WetChem\_HS      **Method:** PH BY SM4500H+ B-2011

**DUP**      Sample ID: **HS24061406-03DUP**      Units: **pH Units**      Analysis Date: **27-Jun-2024 10:20**  
 Client ID:      Run ID: **WetChem\_HS\_470573** SeqNo: **8102253**      PrepDate:      DF: **1**  
 Analyte      Result      PQL      SPK Val      SPK Ref Value      %REC      Control Limit      RPD Ref Value      %RPD      RPD Limit Qual

pH	7.78	0.100						7.79	0.128	10
Temp Deg C @pH	22	0						21.9	0.456	10

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470632 ( 0 )		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
<b>MBLK</b>	Sample ID: <b>WMBLK-06272024</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Jun-2024 09:30</b>						
Client ID:	Run ID: <b>Balance1_470632</b>	SeqNo: <b>8103533</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		U	10.0							
<b>LCS</b>	Sample ID: <b>WLCS-06272024</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Jun-2024 09:30</b>						
Client ID:	Run ID: <b>Balance1_470632</b>	SeqNo: <b>8103532</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		912	10.0	1000	0	91.2	85 - 115			
<b>DUP</b>	Sample ID: <b>HS24061412-02 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Jun-2024 09:30</b>						
Client ID:	Run ID: <b>Balance1_470632</b>	SeqNo: <b>8103522</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		808	10.0				836	3.41	20	
<b>DUP</b>	Sample ID: <b>HS24061380-02 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Jun-2024 09:30</b>						
Client ID:	Run ID: <b>Balance1_470632</b>	SeqNo: <b>8103512</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		960	10.0				948	1.26	20	

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID:	R470637 ( 0 )	Instrument:	Balance1	Method:	TOTAL SUSPENDED SOLIDS BY SM 2540D-2011					
<b>MBLK</b>	Sample ID: <b>WMBLK-06272024</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Jun-2024 11:30</b>						
Client ID:	Run ID: <b>Balance1_470637</b>	SeqNo: <b>8103621</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	U	2.50								
<b>LCS</b>	Sample ID: <b>WLCS-06272024</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Jun-2024 11:30</b>						
Client ID:	Run ID: <b>Balance1_470637</b>	SeqNo: <b>8103620</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	90	2.50	100	0	90.0	85 - 115				
<b>DUP</b>	Sample ID: <b>HS24061615-01 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Jun-2024 11:30</b>						
Client ID:	Run ID: <b>Balance1_470637</b>	SeqNo: <b>8103619</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	88.2	2.50					82.8	6.32	20	
<b>DUP</b>	Sample ID: <b>HS24060998-01 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>27-Jun-2024 11:30</b>						
Client ID:	Run ID: <b>Balance1_470637</b>	SeqNo: <b>8103599</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	86	2.50					85	1.17	20	

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

Batch ID: R470959 ( 0 )		Instrument: WetChem_HS		Method: RESIDUAL CHLORINE BY SM4500CL F-2011						
<b>MBLK</b>	Sample ID: <b>MBLK-R470959</b>	Units: <b>mg/L</b>			Analysis Date: <b>01-Jul-2024 14:38</b>					
Client ID:	Run ID: <b>WetChem_HS_470959</b>	SeqNo: <b>8111751</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	U	0.10								
<b>LCS</b>	Sample ID: <b>LCS-R470959</b>	Units: <b>mg/L</b>			Analysis Date: <b>01-Jul-2024 14:38</b>					
Client ID:	Run ID: <b>WetChem_HS_470959</b>	SeqNo: <b>8111750</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	2.7	0.10	3.09	0	87.4	85 - 115				
<b>LCSD</b>	Sample ID: <b>LCSD-R470959</b>	Units: <b>mg/L</b>			Analysis Date: <b>01-Jul-2024 14:38</b>					
Client ID:	Run ID: <b>WetChem_HS_470959</b>	SeqNo: <b>8111749</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	2.7	0.10	3.09	0	87.4	85 - 115	2.7	0	20	
<b>MS</b>	Sample ID: <b>HS24061242-01MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>01-Jul-2024 14:38</b>					
Client ID:	Run ID: <b>WetChem_HS_470959</b>	SeqNo: <b>8111752</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	2.8	0.10	3.09	0.9	61.5	80 - 120			S	

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

<b>Batch ID:</b> R470961 ( 0 )	<b>Instrument:</b> WetChem_HS	<b>Method:</b> CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993
--------------------------------	-------------------------------	--

<b>MBLK</b>	Sample ID: <b>MBLK-R470961</b>	Units: <b>mg/L</b>	Analysis Date: <b>01-Jul-2024 14:30</b>							
Client ID:	Run ID: <b>WetChem_HS_470961</b>	SeqNo: <b>8111776</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Chemical Oxygen Demand U 15.0

<b>LCS</b>	Sample ID: <b>LCS-R470961</b>	Units: <b>mg/L</b>	Analysis Date: <b>01-Jul-2024 14:30</b>							
Client ID:	Run ID: <b>WetChem_HS_470961</b>	SeqNo: <b>8111775</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Chemical Oxygen Demand 99 15.0 100 0 99.0 85 - 115

<b>MS</b>	Sample ID: <b>HS24061498-02MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>01-Jul-2024 14:30</b>							
Client ID:	Run ID: <b>WetChem_HS_470961</b>	SeqNo: <b>8111778</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Chemical Oxygen Demand 70 15.0 50 22 96.0 80 - 120

<b>MSD</b>	Sample ID: <b>HS24061498-02MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>01-Jul-2024 14:30</b>							
Client ID:	Run ID: <b>WetChem_HS_470961</b>	SeqNo: <b>8111777</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Chemical Oxygen Demand 72 15.0 50 22 100 80 - 120 70 2.82 20

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

<b>Batch ID:</b> R471175 ( 0 )	<b>Instrument:</b> Skalar 03	<b>Method:</b> ALKALINITY BY -2011
--------------------------------	------------------------------	------------------------------------

<b>MBLK</b>	Sample ID: <b>MBLK-07012024</b>	Units: <b>mg/L</b>	Analysis Date: <b>02-Jul-2024 17:55</b>							
Client ID:	Run ID: <b>Skalar 03_471175</b>	SeqNo: <b>8122079</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) U 5.00

<b>LCS</b>	Sample ID: <b>LCS-04012024</b>	Units: <b>mg/L</b>	Analysis Date: <b>02-Jul-2024 18:01</b>							
Client ID:	Run ID: <b>Skalar 03_471175</b>	SeqNo: <b>8122080</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 964.5 5.00 1000 0 96.4 85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-07012024</b>	Units: <b>mg/L</b>	Analysis Date: <b>02-Jul-2024 18:07</b>							
Client ID:	Run ID: <b>Skalar 03_471175</b>	SeqNo: <b>8122081</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 965 5.00 1000 0 96.5 85 - 115 964.5 0.0518 20

<b>DUP</b>	Sample ID: <b>HS24061564-02DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>02-Jul-2024 18:23</b>							
Client ID:	Run ID: <b>Skalar 03_471175</b>	SeqNo: <b>8122084</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 225.7 5.00 228.5 1.23 20

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

<b>Batch ID:</b> R471457 ( 0 )	<b>Instrument:</b> Balance1	<b>Method:</b> OIL & GREASE (HEM) BY E1664A
--------------------------------	-----------------------------	---

<b>MBLK</b>	Sample ID: <b>WMBLK-07092024</b>	Units: <b>mg/L</b>	Analysis Date: <b>09-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_471457</b>	SeqNo: <b>8128175</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease U 2.00

<b>LCS</b>	Sample ID: <b>LCS-07092024</b>	Units: <b>mg/L</b>	Analysis Date: <b>09-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_471457</b>	SeqNo: <b>8128173</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 42.2 2.00 40 0 106 78 - 114

<b>LCSD</b>	Sample ID: <b>LCSD-07092024</b>	Units: <b>mg/L</b>	Analysis Date: <b>09-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_471457</b>	SeqNo: <b>8128174</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 41.6 2.00 40 0 104 78 - 114 42.2 1.43 18

<b>MS</b>	Sample ID: <b>HS24061738-02MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>09-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_471457</b>	SeqNo: <b>8128161</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 40 2.00 40 1.364 96.6 78 - 114

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QC BATCH REPORT**

**Batch ID:** R471658 ( 0 )      **Instrument:** TOC\_04      **Method:** TOTAL ORGANIC CARBON BY SW9060A

<b>MBLK</b>	Sample ID: <b>MBLK-07102024</b>	Units: <b>mg/L</b>			Analysis Date: <b>10-Jul-2024 18:32</b>				
Client ID:	Run ID: <b>TOC_04_471658</b>	SeqNo: <b>8132206</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      U      1.00

<b>LCS</b>	Sample ID: <b>LCS-07102024</b>	Units: <b>mg/L</b>			Analysis Date: <b>10-Jul-2024 18:46</b>				
Client ID:	Run ID: <b>TOC_04_471658</b>	SeqNo: <b>8132207</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      8.885      1.00      10      0      88.8      85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-07102024</b>	Units: <b>mg/L</b>			Analysis Date: <b>10-Jul-2024 18:59</b>				
Client ID:	Run ID: <b>TOC_04_471658</b>	SeqNo: <b>8132208</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      8.89      1.00      10      0      88.9      85 - 115      8.885      0.0563      20

<b>MS</b>	Sample ID: <b>HS24061247-01MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>10-Jul-2024 19:25</b>				
Client ID:	Run ID: <b>TOC_04_471658</b>	SeqNo: <b>8132210</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      19.95      1.00      10      11.12      88.3      80 - 120

The following samples were analyzed in this batch: HS24061356-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061356

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

<b>Acronym</b>	<b>Description</b>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

<b>Agency</b>	<b>Number</b>	<b>Expire Date</b>
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

Sample Receipt Checklist

Work Order ID: HS24061356

Date/Time Received: 21-Jun-2024 14:14

Client Name: SKA

Received by: Si Ma

Completed By: /S/ Belinda Gomez	21-Jun-2024 16:31	Reviewed by: /S/ sebastian.lugo	24-Jun-2024 11:22
eSignature	Date/Time	eSignature	Date/Time

Matrices: w

Carrier name: Client

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes  No  Not Present
- Chain of custody present? Yes  No  1 Page(s)
- Chain of custody signed when relinquished and received? Yes  No  COC IDs:316163
- Samplers name present on COC? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container/Temp Blank temperature in compliance? Yes  No

Temperature(s)/Thermometer(s):	1.1uc/1.2c	ir31
Cooler(s)/Kit(s):	52212	
Date/Time sample(s) sent to storage:	6/21/24 1630	

- Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted
- Water - pH acceptable upon receipt? Yes  No  N/A
- pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



Cincinnati, OH  
+1 513 733 5336

Everett, WA  
+1 425 356 2600

Fort Collins, CO  
+1 970 490 1511

Holland, MI  
+1 616 399 6070

# Chain of Custody For

Page 1 of 1

COC ID: 316163

## HS24061356

SKA Consulting, L.P.  
Doty Wastewater Permit



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	5019-0003	Project Name	Doty Wastewater Permit	A 624_Wdump (VOA 624) 7 day Holding time
Work Order		Project Number	5019-0003	B 625_Wdump (SVOA 625/Pest/PCB)
Company Name	SKA Consulting, L.P.	Bill To Company	SKA Consulting, L.P.	C 200.8 Low (Special List)
Send Report To	Mike Schultz	Invoice Attn	Rebecca Fonseca - AP	D 300_W (Cl. NO3, F. SO4, Br. ALK, Res-d/TDS,pH)
Address	1888 Stebbins Drive Suite 100	Address	1888 Stebbins Drive Suite 100	E BOD 5210B (BOD/CBOD/Diss Oxy/CR+6/CR+3)
				F COD (COD/TON/T-Phos/TOC)
City/State/Zip	Houston, TX 77043	City/State/Zip	Houston TX 77043	G O&G_1664_W_HS (O&G)
Phone	(713) 266-6056	Phone	(713) 266-6056	H TSS_W 2540D (TSS)
Fax	(713) 266-0996	Fax	(713) 266-0996	I SUB_Available Cyanide (ALS Holland)
e-Mail Address	mike.schultz@skaconsulting.com	e-Mail Address	rebecca.fonseca@skaconsulting.com	J Sub_MercuryLow (ALS Holland)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-57	6-21-24	1200	W		34	X	X	X	X	X	X	X	X	X	X	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

MURCUM DUP + FIELD ON HOLD  
LOW  
RUN SAMPLE

Sampler(s) Please Print & Sign <i>Ryan Rutarvilayan</i>		Shipment Method		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STC 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by: <i>Ryan Rutarvilayan</i>		Date: 6-21-24	Time: 14:14	Received by: <i>SM 06/21/24 14:14</i>		Notes: SKA Doty Wastewater Permit	
Relinquished by:		Date:	Time:	Received by (Laboratory):		QC Package: (Check One Box Below)	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		<input checked="" type="checkbox"/> Level II Stc QC <input type="checkbox"/> Level II Stl QC/Raw Date <input type="checkbox"/> Level IV SW/MB/CLP <input type="checkbox"/> Other:	
Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other 8-4°C 9-5035							

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

 <b>ALS</b> 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	<b>CUSTODY SEAL</b>		Seal Broken By:
	Date: 6-21-24	Time: 1400	SM
	Name: RYAN RUTANIMAA	Company: SFA CONSULTING	Date: 06/21/24

52212

JUN 21 2024



right solutions.  
right partner.

June 28, 2024

Bernadette Fini  
ALS Environmental  
10450 Stancliff Rd  
Suite 210  
Houston, TX 77099

Work Order: **HN2403514**

Re: **HS24061356-01**

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

**Chelsey Cook**

**/S/ CHELSEY COOK**

**Project Manager**



# Narrative Documents

**Client:** ALS Environmental  
**Project:** HS24061356-01  
**Sample Matrix:** Water

**Work Order:** HN2403514  
**Date Received:** 25-Jun-2024

### CASE NARRATIVE

**Sample Receipt:**

One water sample was received for analysis at ALS Environmental on 25-Jun-2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

**Inorganics:**

No significant anomalies were noted with this analysis.

# SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting limits.

For a full listing of sample results, continue to the Sample Results section of this Report.



**CLIENT ID: SB-57**

**Lab ID: HN2403514-001**

<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>	<b>Method</b>
Mercury	1.15		0.200	0.500	ng/L	EPA 1631E



## Sample Receipt Information

# SAMPLE SUMMARY



**Client:** ALS Environmental  
**Project:** HS24061356-01  
**Workorder:** HN2403514

<b>Laboratory Sample ID</b>	<b>Client Sample ID</b>	<b>Sample Matrix</b>	<b>Collection Date</b>	<b>Date Received</b>
HN2403514-001	SB-57	WATER	06/21/24 12:00	06/25/24 09:30



Environmental Division  
Holland  
Work Order Reference  
**HN2403514**

10450 Stancliff Rd, Ste 210  
Houston, TX 77099  
T: +1 281 530 5656  
F: +1 281 530 5887  
[www.alsglobal.com](http://www.alsglobal.com)



Telephone: +1 616 399 6070

## Subcontract

**SAMPLING STATE:** Texas

**COC ID:** 26123

**SUBCONTRACT TO:**

ALS Group USA, Corp.  
3352 - 128th Ave  
Holland, MI 494249263

**Phone:** +1 616 399 6070

**CUSTOMER INFORMATION:**

**Company:** ALS Houston  
**Contact:** Bernadette A. Fini  
**Address:** 10450 Stancliff Rd, Ste 210  
**Phone:** +1 281 530 5656  
**Email:** Bernadette.fini@alsglobal.com  
**Alternate Contact:** Jumoke M. Lawal  
**Email:** jumoke.lawal@alsglobal.com

**INVOICE INFORMATION:**

**Company:** ALS Houston  
**Contact:** Accounts Payable  
**Address:** 10450 Stancliff Rd, Ste 210  
**Phone:** +1 281 530 5656  
**Reference:** HS24061356  
**TSR:** Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
1. HS24061356-01	SB-57	Water	21 Jun 2024 12:00
	SUB_Available Cyanide		08 Jul 2024
	Sub_MercuryLow		08 Jul 2024

**Comments:** Please analyze for the analysis listed above.  
Send report to the emails shown above.

\*\*\*Field Dup and Field Blank on HOLD\*\*\*\*

**QC Level:** STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By:

*AM*

Date/Time:

*6/24/24 18:00*

Received By:

Date/Time:

*6-25-24 9:30*

Cooler ID(s):

Temperature(s):

*31C @ 2*  
*8037*

RIGHT SOLUTIONS | RIGHT PARTNER



right solutions.  
right partner.

# ALS Holland Sample Receiving Checklist

Received by:

*[Signature]*

Date/Time:

*B-25-24*

Carrier Name:

*fedx*

Shipping container/cooler in good condition?

Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No / Not Present

Custody seals intact on sample bottles?

Yes / No / Not Present

Chain of Custody present?

Yes / No

COC signed when relinquished and received?

Yes / No

COC agrees with sample labels?

Yes / No

Samples in proper container/bottle?

Yes / No

Sample containers intact?

Yes / No

Sufficient sample volume for indicated test?

Yes / No

All samples received within holding time?

Yes / No

Container/Temp Blank temperature in compliance?

Yes / No

Temperature(s) (°C):

*3-1/3-1*

Thermometer(s):

*072*

Sample(s) received on ice?

Yes / No

Matrix/Matrices:

*water*

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

*B-25-24*

Water – VOA vials have zero headspace?

Yes / No / No Vials

Water – pH acceptable upon receipt?

Yes / No / N/A

pH strip lot #: \_\_\_\_\_ < 2 \_\_\_\_\_ > 12 *0* Other \_\_\_\_\_

pH adjusted (note adjustments below)?

Yes / No / N/A

pH adjusted by:

\_\_\_\_\_

Login Notes:



# Miscellaneous Forms

## REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
V	The Continuing Calibration Verification was outside of control criteria
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

### Holland Laboratory Certifications<sup>1</sup>

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	1/1/2024	12/31/2024
Colorado	UST		6/21/2024	6/30/2025
Connecticut	Drinking Water (Secondary)	PH-0155	1/23/2023	12/31/2024
Florida	NELAP (Primary)	E871106	7/1/2024	6/30/2025
Illinois	NELAP (Secondary)	200076	12/14/2023	12/31/2024
Indiana	Drinking Water (Secondary)	C-MI-08	4/4/2024	9/4/2026
Iowa	State Specific	403	9/18/2023	9/1/2025
Kansas	NELAP (Secondary)	E-10411	7/26/2023	7/31/2024
Kentucky	Waste Water	KY98004	12/5/2023	12/31/2024
Kentucky	UST	120474	6/24/24	6/30/2025
Michigan	Drinking Water (Primary)	0022	12/19/2023	9/4/2026
Minnesota	NELAP (Secondary)	026-999-449	12/29/2023	12/31/2024
New Jersey	NELAP (Secondary)	MI015	7/1/2024	6/30/2025
New York	Drinking Water (Secondary)	12128	3/29/2024	4/1/2025
North Dakota	State Specific	R-192	9/12/2023	6/30/2024
Ohio	Drinking Water (Secondary)	87783	7/1/2024	6/30/2025
Pennsylvania	NELAP (Secondary)	68-03827	6/14/2024	7/31/2025
Texas	NELAP (Secondary)	T104704494	2/1/2024	1/31/2025
USDA	Domestic CA	Soil-MI-007	8/21/2023	2/18/2025
USDA	Soil Import	P330-19-00039	3/3/2023	3/3/2026
West Virginia	State Specific	355	6/24/2024	8/31/2025
Wisconsin	State Specific	399084510	8/11/2023	8/31/2024

<sup>1</sup> - Scope available upon request

# ANALYST SUMMARY



**Client:** ALS Environmental  
**Project:** HS24061356-01

**Work Order:** HN2403514

---

**Sample Name:** SB-57  
**Laboratory Code:** HN2403514-001  
**Sample Matrix:** WATER

**Date Collected:** 06/21/24  
**Date Received:** 06/25/24

---

<b>Analysis Method</b>	<b>Preparation Lot</b>	<b>Prepared By</b>	<b>Analysis Lot</b>	<b>Analyzed By</b>
EPA 1631E	1515555	Kate Achatz	2355189	Amber Luke
OIA 1677	1514339	Mike Burkall	2354611	Mike Burkall

---



# Sample Results



# Metals

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061356-01/  
**Sample Matrix:** WATER  
**Sample Name:** SB-57  
**Laboratory Code:** HN2403514-001

**Work Order:** HN2403514  
**Date Collected:** 06/21/24 12:00  
**Date Received:** 06/25/24 09:30

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	1.15	ng/L	0.500	1	06/27/24 13:50	06/26/24 16:06	



# General Chemistry

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061356-01/  
**Sample Matrix:** WATER  
**Sample Name:** SB-57  
**Laboratory Code:** HN2403514-001

**Work Order:** HN2403514  
**Date Collected:** 06/21/24 12:00  
**Date Received:** 06/25/24 09:30

## General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	06/27/24 08:57	06/26/24 09:30	



# QC Summary Forms



# Metals

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061356-01/  
**Sample Matrix:** WATER  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1515555-001

**Work Order:** HN2403514  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	06/27/24 13:43	06/26/24 16:07	

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061356-01/  
**Sample Matrix:** WATER  
  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1515555-002

**Work Order:** HN2403514  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	06/27/24 14:06	06/26/24 16:07	

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061356-01/  
**Sample Matrix:** WATER  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1515555-003

**Work Order:** HN2403514  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	06/27/24 14:29	06/26/24 16:07	

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061356-01/  
**Sample Matrix:** WATER  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1515555-004

**Work Order:** HN2403514  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	06/27/24 14:53	06/26/24 16:07	

## QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061356-01  
**Sample Matrix:** WATER

**Work Order:** HN2403514  
**Date Collected:** 06/25/2024  
**Date Received:** 06/26/2024  
**Date Analyzed:** 06/27/2024  
**Date Extracted:** 06/26/2024

### Duplicate Matrix Spike Summary Metals

**Sample Name:** Batch QC  
**Laboratory Code:** Batch QC  
**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:** ng/L  
**Analysis Lab Lot:** 2355189

**Matrix Spike**  
 QC-1515555-008

**Duplicate Matrix Spike**  
 QC-1515555-009

Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	<0.500	5.21	5	103	5.20	5	103	71-125	0.192	24

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061356-01  
**Sample Matrix:** WATER

**Work Order:**HN2403514  
**Date Analyzed:**06/27/2024  
**Date Extracted:**06/26/2024

## Laboratory Control Sample Summary

**Metals**  
**Mercury**

**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:**ng/L  
**Analysis Lab Lot:**2355189

<b>Sample Name</b>	<b>Laboratory Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Laboratory Control Sample	QC-1515555-005	5.35	5	107	77-123

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061356-01  
**Sample Matrix:** WATER

**Work Order:** HN2403514  
**Date Analyzed:** 06/27/2024  
**Date Extracted:** 06/26/2024

## Laboratory Control Sample Summary

**Metals**  
**Mercury**

**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:** ng/L  
**Analysis Lab Lot:** 2355189

<b>Sample Name</b>	<b>Laboratory Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Laboratory Control Sample	QC-1515555-006	5.46	5	109	77-123



# General Chemistry

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061356-01/  
**Sample Matrix:** WATER

**Work Order:** HN2403514  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Laboratory Code:** QC-1514339-001

## General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	06/27/24 08:58	06/26/24 09:31	

## QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061356-01  
**Sample Matrix:** WATER

**Work Order:** HN2403514  
**Date Collected:** 06/21/2024  
**Date Received:** 06/22/2024  
**Date Analyzed:** 06/27/2024  
**Date Extracted:** 06/26/2024

### Duplicate Matrix Spike Summary General Chemistry Parameters

**Sample Name:** Batch QC  
**Laboratory Code:** Batch QC  
**Analysis Method:** OIA 1677  
**Prep Method:** Method

**Units:** µg/L  
**Analysis Lab Lot:** 2354611

**Matrix Spike**  
 QC-1514339-004

**Duplicate Matrix Spike**  
 QC-1514339-005

Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Available Cyanide	0.02	68.4	50	107	70.6	50	111	82-130	3.17	11

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061356-01  
**Sample Matrix:** WATER

**Work Order:** HN2403514  
**Date Analyzed:** 06/27/2024  
**Date Extracted:** 06/26/2024

## Laboratory Control Sample Summary General Chemistry Parameters Available Cyanide

**Analysis Method:** OIA 1677  
**Prep Method:** Method

**Units:** µg/L  
**Analysis Lab Lot:** 2354611

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1514339-002	41.5	50	83.1	82-132



---

10450 Stancliff Rd. Suite 210  
Houston, TX 77099  
T: +1 281 530 5656  
F: +1 281 530 5887

July 18, 2024

Mike Schultz  
SKA Consulting, L.P.  
1888 Stebbins Drive  
Suite 100  
Houston, TX 77043

Work Order: **HS24061758**

Laboratory Results for: **Doty Wastewater Permit**

Dear Mike Schultz,

ALS Environmental received 1 sample(s) on Jun 28, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER  
Bernadette A. Fini  
Project Manager

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24061758

**SAMPLE SUMMARY**

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Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24061758-01	SB-57	Water		28-Jun-2024 12:00	28-Jun-2024 12:50	<input type="checkbox"/>

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24061758

**CASE NARRATIVE**

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**Work Order Comments**

- Sample received outside method holding time for pH, dissolved oxygen and residual chlorine. These are an immediate test. Sample results are flagged with an "H" qualifier.  
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.
- The analyses for low level mercury and available cyanide were subcontracted to ALS Environmental in Holland, MI. Final Report attached.

---

**ECD Organics by Method E608****Batch ID: 214532****Sample ID: MBLK1-214532**

- Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

---

**GCMS Semivolatiles by Method E625****Batch ID: 214559****Sample ID: LCS-214559**

- LCS and LCSD were not spiked with any AP91 compounds:  
N-Nitroso-di-n-butylamine  
N-Nitrosodiethylamine  
N-Nitrosodimethylamine

**Sample ID: LCS1-214559**

- LCS and LCSD were spiked 5 ppm surr instead of 100 ppm.

**Sample ID: LCSD-214559**

- The Benzidine recovery was below the upper control limit for LCS and LCSD All sample results in the batch were non-detect.
- The RPD between the LCS and LCSD was outside of the control limit.

---

**GCMS Volatiles by Method E624****Batch ID: R470945****Sample ID: VLCSW-240701**

- Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

---

**Metals by Method Calculation****Batch ID: R471965**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**Metals by Method E200.8****Batch ID: 214754****Sample ID: HS24061772-01MS**

- MS and MSD are for an unrelated sample

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24061758

**CASE NARRATIVE**

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**WetChemistry by Method SM4500H+ B**

**Batch ID: R471208**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**WetChemistry by Method M2540C**

**Batch ID: R471343**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method SM2320B**

**Batch ID: R471599**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method SW9060**

**Batch ID: R471974**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method E1664A**

**Batch ID: R471691**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**WetChemistry by Method E410.4**

**Batch ID: R471576**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**WetChemistry by Method M2540D**

**Batch ID: R471212**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**WetChemistry by Method SM4500CL F**

**Batch ID: R470959**

**Sample ID: HS24061242-01MS**

- MS is for an unrelated sample

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**WetChemistry by Method M4500 NH3 D**

**Batch ID: 214836,R471993**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24061758

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**CASE NARRATIVE**

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**WetChemistry by Method SW7196**

**Batch ID: R470721**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method M4500-O G**

**Batch ID: R470918**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method E300**

**Batch ID: R470811**

**Sample ID: HS24061747-01MS, HS24061748-02MS**

- MS and MSD are for an unrelated sample (Bromide,Sulfate)
- 

**WetChemistry by Method SM4500 NH3-B-F**

**Batch ID: 214794**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method E365.3**

**Batch ID: 214777**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SM5210 B**

**Batch ID: 214261,214269**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 28-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061758  
 Lab ID:HS24061758-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
<b>VOLATILES</b>		<b>Method:E624</b>			Analyst: FT			
1,1,1-Trichloroethane	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
1,1,2,2-Tetrachloroethane	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
1,1,2-Trichloroethane	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
1,1-Dichloroethane	U		0.400	5.00	ug/L	1	01-Jul-2024 12:07	
1,1-Dichloroethene	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
1,2-Dibromoethane	U		0.400	5.00	ug/L	1	01-Jul-2024 12:07	
1,2-Dichlorobenzene	U		0.600	5.00	ug/L	1	01-Jul-2024 12:07	
1,2-Dichloroethane	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
1,2-Dichloropropane	U		0.700	5.00	ug/L	1	01-Jul-2024 12:07	
1,3-Dichlorobenzene	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
1,4-Dichlorobenzene	U		0.600	5.00	ug/L	1	01-Jul-2024 12:07	
2-Butanone	U		1.00	10.0	ug/L	1	01-Jul-2024 12:07	
2-Chloroethyl vinyl ether	U		1.30	10.0	ug/L	1	01-Jul-2024 12:07	
Acrolein	U		4.00	20.0	ug/L	1	01-Jul-2024 12:07	
Acrylonitrile	U		4.00	10.0	ug/L	1	01-Jul-2024 12:07	
Benzene	U		0.600	5.00	ug/L	1	01-Jul-2024 12:07	
Bromodichloromethane	U		0.600	5.00	ug/L	1	01-Jul-2024 12:07	
Bromoform	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
Bromomethane	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
Carbon tetrachloride	U		0.600	5.00	ug/L	1	01-Jul-2024 12:07	
Chlorobenzene	U		0.400	5.00	ug/L	1	01-Jul-2024 12:07	
Chloroethane	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
Chloroform	U		0.600	5.00	ug/L	1	01-Jul-2024 12:07	
Chloromethane	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
cis-1,3-Dichloropropene	U		0.600	5.00	ug/L	1	01-Jul-2024 12:07	
Dibromochloromethane	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
Ethylbenzene	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
m,p-Xylene	U		0.600	10.0	ug/L	1	01-Jul-2024 12:07	
Methylene chloride	U		1.00	10.0	ug/L	1	01-Jul-2024 12:07	
Naphthalene	U		0.700	5.00	ug/L	1	01-Jul-2024 12:07	
o-Xylene	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
Tetrachloroethene	U		0.600	5.00	ug/L	1	01-Jul-2024 12:07	
Toluene	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
trans-1,2-Dichloroethene	U		0.400	5.00	ug/L	1	01-Jul-2024 12:07	
trans-1,3-Dichloropropene	U		0.600	5.00	ug/L	1	01-Jul-2024 12:07	
Trichloroethene	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
Vinyl chloride	U		0.400	2.00	ug/L	1	01-Jul-2024 12:07	
Xylenes, Total	U		0.500	5.00	ug/L	1	01-Jul-2024 12:07	
1,3-Dichloropropene, Total	U		0.600	5.00	ug/L	1	01-Jul-2024 12:07	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 28-Jun-2024 12:00

**ANALYTICAL REPORT**

WorkOrder:HS24061758  
 Lab ID:HS24061758-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>VOLATILES</b>							Analyst: FT
	<b>Method:E624</b>						
Surr: 1,2-Dichloroethane-d4	95.5			70-126	%REC	1	01-Jul-2024 12:07
Surr: 4-Bromofluorobenzene	96.2			82-124	%REC	1	01-Jul-2024 12:07
Surr: Dibromofluoromethane	98.2			77-123	%REC	1	01-Jul-2024 12:07
Surr: Toluene-d8	104			82-127	%REC	1	01-Jul-2024 12:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 28-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061758  
 Lab ID:HS24061758-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>SEMIVOLATILE</b>		<b>Method:E625</b>			Prep:E625 / 05-Jul-2024		Analyst: GEY
1,2,4,5-Tetrachlorobenzene	U		0.600	5.00	ug/L	1	11-Jul-2024 19:25
1,2,4-Trichlorobenzene	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
1,2-Diphenylhydrazine	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
2,4,5-Trichlorophenol	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
2,4,6-Trichlorophenol	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
2,4-Dichlorophenol	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
2,4-Dimethylphenol	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
2,4-Dinitrophenol	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
2,4-Dinitrotoluene	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
2,6-Dinitrotoluene	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
2-Chloronaphthalene	U		0.600	5.00	ug/L	1	11-Jul-2024 19:25
2-Chlorophenol	U		1.00	5.00	ug/L	1	11-Jul-2024 19:25
2-Methylphenol	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
2-Nitrophenol	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
3&4-Methylphenol	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
3,3'-Dichlorobenzidine	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
4,6-Dinitro-2-methylphenol	U		0.900	5.00	ug/L	1	11-Jul-2024 19:25
4-Bromophenyl phenyl ether	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
4-Chloro-3-methylphenol	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
4-Chlorophenyl phenyl ether	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
4-Nitrophenol	U		0.600	5.00	ug/L	1	11-Jul-2024 19:25
Acenaphthene	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
Acenaphthylene	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
Anthracene	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
Benz(a)anthracene	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
Benzidine	U		5.00	5.00	ug/L	1	11-Jul-2024 19:25
Benzo(a)pyrene	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
Benzo(b)fluoranthene	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
Benzo(g,h,i)perylene	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
Benzo(k)fluoranthene	U		0.700	5.00	ug/L	1	11-Jul-2024 19:25
Bis(2-chloroethoxy)methane	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
Bis(2-chloroethyl)ether	U		0.700	5.00	ug/L	1	11-Jul-2024 19:25
Bis(2-chloroisopropyl)ether	U		0.800	5.00	ug/L	1	11-Jul-2024 19:25
Bis(2-ethylhexyl)phthalate	U		0.800	5.00	ug/L	1	11-Jul-2024 19:25
Butyl benzyl phthalate	U		0.600	5.00	ug/L	1	11-Jul-2024 19:25
Chrysene	U		0.800	5.00	ug/L	1	11-Jul-2024 19:25
Dibenz(a,h)anthracene	U		0.600	5.00	ug/L	1	11-Jul-2024 19:25
Diethyl phthalate	U		0.700	5.00	ug/L	1	11-Jul-2024 19:25
Dimethyl phthalate	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 28-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061758  
 Lab ID:HS24061758-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>SEMIVOLATILE</b>		<b>Method:E625</b>		Prep:E625 / 05-Jul-2024		Analyst: GEY	
Di-n-butyl phthalate	U		0.800	5.00	ug/L	1	11-Jul-2024 19:25
Di-n-octyl phthalate	U		2.00	5.00	ug/L	1	11-Jul-2024 19:25
Fluoranthene	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
Fluorene	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
Hexachlorobenzene	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
Hexachlorobutadiene	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
Hexachlorocyclopentadiene	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
Hexachloroethane	U		0.800	5.00	ug/L	1	11-Jul-2024 19:25
Indeno(1,2,3-cd)pyrene	U		0.600	5.00	ug/L	1	11-Jul-2024 19:25
Isophorone	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
Nitrobenzene	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
N-Nitrosodiethylamine	U		0.600	5.00	ug/L	1	11-Jul-2024 19:25
N-Nitrosodimethylamine	U		0.600	5.00	ug/L	1	11-Jul-2024 19:25
N-Nitroso-di-n-butylamine	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
N-Nitrosodi-n-propylamine	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
N-Nitrosodiphenylamine	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
Nonylphenol	U	n	5.00	5.00	ug/L	1	11-Jul-2024 19:25
Pentachlorobenzene	U		0.500	5.00	ug/L	1	11-Jul-2024 19:25
Pentachlorophenol	U		0.800	5.00	ug/L	1	11-Jul-2024 19:25
Phenanthrene	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
Phenol	U		0.400	5.00	ug/L	1	11-Jul-2024 19:25
Pyrene	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
Pyridine	U		0.300	5.00	ug/L	1	11-Jul-2024 19:25
<i>Surr: 2,4,6-Tribromophenol</i>	<i>83.0</i>			<i>42-124</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 19:25</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>69.1</i>			<i>48-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 19:25</i>
<i>Surr: 2-Fluorophenol</i>	<i>44.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 19:25</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>86.8</i>			<i>51-135</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 19:25</i>
<i>Surr: Nitrobenzene-d5</i>	<i>49.9</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 19:25</i>
<i>Surr: Phenol-d6</i>	<i>56.2</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 19:25</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 28-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061758  
 Lab ID:HS24061758-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>CHLORINATED PEST/PCBS BY E608</b>		<b>Method:E608</b>			Prep:E608 / 05-Jul-2024		Analyst: E.H.
4,4'-DDD	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:20
4,4'-DDE	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:20
4,4'-DDT	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:20
Aldrin	U		0.00500	0.0500	ug/L	1	16-Jul-2024 08:20
alpha-BHC	U		0.0100	0.0500	ug/L	1	16-Jul-2024 08:20
Aroclor 1016	U		0.200	0.500	ug/L	1	12-Jul-2024 23:18
Aroclor 1221	U		0.200	0.500	ug/L	1	12-Jul-2024 23:18
Aroclor 1232	U		0.200	0.500	ug/L	1	12-Jul-2024 23:18
Aroclor 1242	U		0.200	0.500	ug/L	1	12-Jul-2024 23:18
Aroclor 1248	U		0.200	0.500	ug/L	1	12-Jul-2024 23:18
Aroclor 1254	U		0.200	0.500	ug/L	1	12-Jul-2024 23:18
Aroclor 1260	U		0.200	0.500	ug/L	1	12-Jul-2024 23:18
beta-BHC	U		0.0100	0.0500	ug/L	1	16-Jul-2024 08:20
Chlordane	U		0.100	0.500	ug/L	1	16-Jul-2024 08:20
delta-BHC	U		0.0100	0.0500	ug/L	1	16-Jul-2024 08:20
<b>Dieldrin</b>	<b>0.0230</b>	<b>J</b>	<b>0.00500</b>	<b>0.100</b>	<b>ug/L</b>	<b>1</b>	<b>16-Jul-2024 08:20</b>
Endosulfan I	U		0.0100	0.0500	ug/L	1	16-Jul-2024 08:20
Endosulfan II	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:20
Endosulfan sulfate	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:20
Endrin	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:20
Endrin aldehyde	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:20
gamma-BHC	U		0.00500	0.0500	ug/L	1	16-Jul-2024 08:20
Heptachlor	U		0.00500	0.0500	ug/L	1	16-Jul-2024 08:20
Heptachlor epoxide	U		0.00500	0.0500	ug/L	1	16-Jul-2024 08:20
Toxaphene	U		0.130	0.500	ug/L	1	16-Jul-2024 08:20
<i>Surr: Decachlorobiphenyl</i>	99.1			61-154	%REC	1	12-Jul-2024 23:18
<i>Surr: Decachlorobiphenyl</i>	95.8			61-154	%REC	1	16-Jul-2024 08:20
<i>Surr: Tetrachlor-m-xylene</i>	79.6			60-144	%REC	1	12-Jul-2024 23:18
<i>Surr: Tetrachlor-m-xylene</i>	76.8			60-144	%REC	1	16-Jul-2024 08:20
<b>TRIVALENT CHROMIUM</b>		<b>Method:Calculation</b>					Analyst: MSC
Chromium, Trivalent	U	n	0.0100	0.0100	mg/L	1	15-Jul-2024 15:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 28-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061758  
 Lab ID:HS24061758-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>TOTAL METALS BY E200.8, REV 5.4, 1994</b>		<b>Method:E200.8</b>		Prep:E200.8 / 12-Jul-2024		Analyst: JC	
Aluminum	105		0.800	10.0	ug/l	1	13-Jul-2024 20:52
Antimony	U		0.0530	5.00	ug/l	1	13-Jul-2024 20:52
Arsenic	0.492	J	0.250	2.00	ug/l	1	13-Jul-2024 20:52
Barium	1,560		0.0840	4.00	ug/l	1	13-Jul-2024 20:52
Beryllium	U		0.0910	5.00	ug/l	1	13-Jul-2024 20:52
Cadmium	U		0.0770	2.00	ug/l	1	13-Jul-2024 20:52
Chromium	1.55	J	0.251	4.00	ug/l	1	13-Jul-2024 20:52
Copper	0.609	J	0.170	2.00	ug/l	1	13-Jul-2024 20:52
Iron	22,100		50.0	200	ug/l	1	13-Jul-2024 20:52
Lead	7.10		0.120	2.00	ug/l	1	13-Jul-2024 20:52
Magnesium	53,600		7.80	500	ug/l	1	13-Jul-2024 20:52
Manganese	342		0.0660	5.00	ug/l	1	13-Jul-2024 20:52
Molybdenum	U		0.490	5.00	ug/l	1	13-Jul-2024 20:52
Nickel	0.931	J	0.110	2.00	ug/l	1	13-Jul-2024 20:52
Selenium	U		0.860	2.00	ug/l	1	13-Jul-2024 20:52
Silver	U		0.0440	2.00	ug/l	1	13-Jul-2024 20:52
Thallium	U		0.250	2.00	ug/l	1	13-Jul-2024 20:52
Zinc	17.3		1.00	4.00	ug/l	1	13-Jul-2024 20:52
<b>OIL &amp; GREASE (HEM) BY E1664A</b>		<b>Method:E1664A</b>				Analyst: MC	
Oil and Grease	2.67		0.610	2.00	mg/L	1	11-Jul-2024 07:00
<b>ANIONS BY E300.0, REV 2.1, 1993</b>		<b>Method:E300</b>				Analyst: TH	
Bromide	0.698		0.0300	0.100	mg/L	1	28-Jun-2024 20:53
Chloride	45.0		0.200	0.500	mg/L	1	28-Jun-2024 20:53
Fluoride	0.386		0.0500	0.100	mg/L	1	28-Jun-2024 20:53
Nitrogen, Nitrate (As N)	U		0.0300	0.100	mg/L	1	28-Jun-2024 20:53
Sulfate	0.401	J	0.200	0.500	mg/L	1	28-Jun-2024 20:53
<b>PHOSPHORUS BY E365.3-1978</b>		<b>Method:E365.3</b>		Prep:E365.3 / 12-Jul-2024		Analyst: CD	
Phosphorus, Total (As P)	0.0340	J	0.0200	0.0500	mg/L	1	12-Jul-2024 14:52
<b>CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993</b>		<b>Method:E410.4</b>				Analyst: TH	
Chemical Oxygen Demand	90.0		5.00	15.0	mg/L	1	10-Jul-2024 12:45
<b>TOTAL DISSOLVED SOLIDS BY SM2540C-2011</b>		<b>Method:M2540C</b>				Analyst: MH	
Total Dissolved Solids (Residue, Filterable)	1,250		5.00	10.0	mg/L	1	05-Jul-2024 09:30
<b>TOTAL SUSPENDED SOLIDS BY SM2540D-2011</b>		<b>Method:M2540D</b>				Analyst: MH	
Suspended Solids (Residue, Non-Filterable)	70.4		0.930	2.50	mg/L	1	03-Jul-2024 11:00
<b>ORGANIC NITROGEN BY SM4500-NH3D MINUS NH3F-2011</b>		<b>Method:M4500 NH3 D</b>				Analyst: JHD	
Nitrogen, Organic	6.9		0.50	0.50	mg/L	1	16-Jul-2024 09:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 28-Jun-2024 12:00

**ANALYTICAL REPORT**  
 WorkOrder:HS24061758  
 Lab ID:HS24061758-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011</b>		Method:M4500 NH3 D		Prep:M4500-N C / 15-Jul-2024		Analyst: HB	
Nitrogen, Total Kjeldahl	11		0.10	0.50	mg/L	1	15-Jul-2024 14:00
<b>DISSOLVED OXYGEN BY SM4500-O G</b>		Method:M4500-O G				Analyst: AR	
Oxygen, Dissolved	U	H	1.00	1.00	mg/L	1	01-Jul-2024 11:12
<b>ALKALINITY BY -2011</b>		Method:SM2320B				Analyst: AR	
Alkalinity, Total (As CaCO3)	1,230		2.50	5.00	mg/L	1	10-Jul-2024 13:41
<b>AMMONIA AS N BY SM4500 NH3-B-F-2011</b>		Method:SM4500 NH3-B-F		Prep:M4500-NH3 B / 12-Jul-2024		Analyst: SG	
Nitrogen, Ammonia (as N)	4.1		0.12	0.25	mg/L	1	13-Jul-2024 08:29
<b>RESIDUAL CHLORINE BY SM4500CL F-2011</b>		Method:SM4500CL F				Analyst: MC	
Chlorine	U	H	0.10	0.10	mg/L	1	01-Jul-2024 14:38
<b>PH BY SM4500H+ B-2011</b>		Method:SM4500H+ B				Analyst: MR	
pH	6.80	H	0.100	0.100	pH Units	1	03-Jul-2024 14:17
Temp Deg C @pH	21.9	H	0	0	°C	1	03-Jul-2024 14:17
<b>BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011</b>		Method:SM5210 B		Prep:SM5210 B / 28-Jun-2024		Analyst: AR	
Biochemical Oxygen Demand	15.1		2.00	2.00	mg/L	1	03-Jul-2024 12:30
<b>CBOD BY SM5210B-2011</b>		Method:SM5210 B		Prep:SM5210 B / 28-Jun-2024		Analyst: AR	
Carbonaceous Biochemical Oxygen Demand	U		2.00	2.00	mg/L	1	05-Jul-2024 09:09
<b>HEXAVALENT CHROMIUM BY SW7196A</b>		Method:SW7196				Analyst: HB	
Chromium, Hexavalent	U		0.0300	0.0500	mg/L	5	28-Jun-2024 15:38
<b>TOTAL ORGANIC CARBON BY SW9060A</b>		Method:SW9060				Analyst: MZD	
Organic Carbon, Total	42.9		0.500	1.00	mg/L	1	15-Jul-2024 16:02
<b>SUB ANALYSIS AVAILABLE CYANIDE - EPA OIA-1667</b>		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0		NA	1	17-Jul-2024 11:43
<b>SUBCONTRACT ANALYSIS - MERCURY LOW</b>		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0		NA	1	17-Jul-2024 11:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

<b>Batch ID:</b> 214261	<b>Start Date:</b> 28 Jun 2024 09:00	<b>End Date:</b> 28 Jun 2024 09:00
<b>Method:</b> WETCHEMPREP, BOD	<b>Prep Code:</b> BOD_PR 5210B	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061758-01		300 (mL)	300 (mL)	1	1-L plastic, Neat

<b>Batch ID:</b> 214269	<b>Start Date:</b> 28 Jun 2024 18:15	<b>End Date:</b> 28 Jun 2024 18:15
<b>Method:</b> CBOD PREP	<b>Prep Code:</b> CBOD_PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061758-01		300 (mL)	300 (mL)	1	1-L plastic, Neat

<b>Batch ID:</b> 214532	<b>Start Date:</b> 05 Jul 2024 10:44	<b>End Date:</b> 05 Jul 2024 10:44
<b>Method:</b> AQPREP SEP FUNNEL: PEST/PCB	<b>Prep Code:</b> 608PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061758-01		1000 (mL)	10 (mL)	0.01	1-liter amber glass, Neat

<b>Batch ID:</b> 214559	<b>Start Date:</b> 05 Jul 2024 14:00	<b>End Date:</b> 05 Jul 2024 14:00
<b>Method:</b> 625 AQ SEP FUNNEL EXTRACTION	<b>Prep Code:</b> 625PRF	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061758-01		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Sodium thiosulfate

<b>Batch ID:</b> 214754	<b>Start Date:</b> 12 Jul 2024 11:00	<b>End Date:</b> 12 Jul 2024 11:00
<b>Method:</b> TOTAL METALS PREP BY E200.8, REV 5.4, 1994	<b>Prep Code:</b> 200.8PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061758-01		10 (mL)	10 (mL)	1	120 plastic HNO3

<b>Batch ID:</b> 214777	<b>Start Date:</b> 12 Jul 2024 09:00	<b>End Date:</b> 12 Jul 2024 09:00
<b>Method:</b> PHOSPHOROUS	<b>Prep Code:</b> P_TW_PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061758-01		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2

<b>Batch ID:</b> 214794	<b>Start Date:</b> 12 Jul 2024 09:45	<b>End Date:</b> 12 Jul 2024 09:45
<b>Method:</b> NITROGEN AMMONIA - WATER - PREP	<b>Prep Code:</b> NIT_AMM_W_PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061758-01		5 (mL)	25 (mL)	5	500 mL plastic, H2SO4 to pH <2

<b>Batch ID:</b> 214836	<b>Start Date:</b> 15 Jul 2024 09:00	<b>End Date:</b> 15 Jul 2024 09:00
<b>Method:</b> TKN WATER - PREP	<b>Prep Code:</b> TKN_W_PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061758-01		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 214261 ( 0 )		<b>Test Name :</b> BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00		28 Jun 2024 09:00	03 Jul 2024 12:30	1
<b>Batch ID:</b> 214269 ( 0 )		<b>Test Name :</b> CBOD BY SM5210B-2011			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00		28 Jun 2024 18:15	05 Jul 2024 09:09	1
<b>Batch ID:</b> 214532 ( 0 )		<b>Test Name :</b> CHLORINATED PEST/PCBS BY E608			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00		05 Jul 2024 10:44	16 Jul 2024 08:20	1
<b>Batch ID:</b> 214532 ( 1 )		<b>Test Name :</b> CHLORINATED PEST/PCBS BY E608			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00		05 Jul 2024 10:44	12 Jul 2024 23:18	1
<b>Batch ID:</b> 214559 ( 0 )		<b>Test Name :</b> SEMIVOLATILE			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00		05 Jul 2024 14:00	11 Jul 2024 19:25	1
<b>Batch ID:</b> 214754 ( 1 )		<b>Test Name :</b> TOTAL METALS BY E200.8, REV 5.4, 1994			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00		12 Jul 2024 11:00	13 Jul 2024 20:52	1
<b>Batch ID:</b> 214777 ( 0 )		<b>Test Name :</b> PHOSPHORUS BY E365.3-1978			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00		12 Jul 2024 09:00	12 Jul 2024 14:52	1
<b>Batch ID:</b> 214794 ( 0 )		<b>Test Name :</b> AMMONIA AS N BY SM4500 NH3-B-F-2011			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00		12 Jul 2024 09:45	13 Jul 2024 08:29	1
<b>Batch ID:</b> 214836 ( 0 )		<b>Test Name :</b> TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00		15 Jul 2024 09:00	15 Jul 2024 14:00	1
<b>Batch ID:</b> R470721 ( 0 )		<b>Test Name :</b> HEXAVALENT CHROMIUM BY SW7196A			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			28 Jun 2024 15:38	5
<b>Batch ID:</b> R470811 ( 0 )		<b>Test Name :</b> ANIONS BY E300.0, REV 2.1, 1993			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			28 Jun 2024 20:53	1
<b>Batch ID:</b> R470918 ( 0 )		<b>Test Name :</b> DISSOLVED OXYGEN BY SM4500-O G			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			01 Jul 2024 11:12	1
<b>Batch ID:</b> R470945 ( 0 )		<b>Test Name :</b> VOLATILES			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			01 Jul 2024 12:07	1
<b>Batch ID:</b> R470959 ( 0 )		<b>Test Name :</b> RESIDUAL CHLORINE BY SM4500CL F-2011			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			01 Jul 2024 14:38	1
<b>Batch ID:</b> R471208 ( 0 )		<b>Test Name :</b> PH BY SM4500H+ B-2011			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			03 Jul 2024 14:17	1
<b>Batch ID:</b> R471212 ( 0 )		<b>Test Name :</b> TOTAL SUSPENDED SOLIDS BY SM 2540D-2011			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			03 Jul 2024 11:00	1
<b>Batch ID:</b> R471343 ( 0 )		<b>Test Name :</b> TOTAL DISSOLVED SOLIDS BY SM2540C-2011			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			05 Jul 2024 09:30	1

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> R471576 ( 0 )		<b>Test Name :</b> CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			10 Jul 2024 12:45	1
<b>Batch ID:</b> R471599 ( 0 )		<b>Test Name :</b> ALKALINITY BY -2011			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			10 Jul 2024 13:41	1
<b>Batch ID:</b> R471691 ( 0 )		<b>Test Name :</b> OIL & GREASE (HEM) BY E1664A			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			11 Jul 2024 07:00	1
<b>Batch ID:</b> R471965 ( 0 )		<b>Test Name :</b> TRIVALENT CHROMIUM			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			15 Jul 2024 15:57	1
<b>Batch ID:</b> R471974 ( 0 )		<b>Test Name :</b> TOTAL ORGANIC CARBON BY SW9060A			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			15 Jul 2024 16:02	1
<b>Batch ID:</b> R471993 ( 0 )		<b>Test Name :</b> ORGANIC NITROGEN BY SM4500-NH3D MINUS NH3F-2011			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			16 Jul 2024 09:08	1
<b>Batch ID:</b> R472107 ( 0 )		<b>Test Name :</b> SUBCONTRACT ANALYSIS - MERCURY LOW			<b>Matrix:</b> Water	
HS24061758-01	SB-57	28 Jun 2024 12:00			17 Jul 2024 11:43	1
HS24061758-01	SB-57	28 Jun 2024 12:00			17 Jul 2024 11:43	1

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214532 ( 0 )		Instrument: ECD_15		Method: CHLORINATED PEST/PCBS BY E608						
MBLK	Sample ID: MBLK1-214532	Units: ug/L			Analysis Date: 16-Jul-2024 09:38					
Client ID:	Run ID: ECD_15_472017	SeqNo: 8140940	PrepDate: 05-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	U	0.100								
4,4'-DDE	U	0.100								
4,4'-DDT	U	0.100								
Aldrin	U	0.0500								
alpha-BHC	U	0.0500								
beta-BHC	U	0.0500								
Chlordane	U	0.500								
delta-BHC	U	0.0500								
Dieldrin	U	0.100								
Endosulfan I	U	0.0500								
Endosulfan II	U	0.100								
Endosulfan sulfate	U	0.100								
Endrin	U	0.100								
Endrin aldehyde	U	0.100								
gamma-BHC	U	0.0500								
Heptachlor	U	0.0500								
Heptachlor epoxide	U	0.0500								
Toxaphene	U	0.500								
Surr: Decachlorobiphenyl	0.2427	0.100	0.2	0	121	61 - 154				
Surr: Tetrachlor-m-xylene	0.2102	0.0500	0.2	0	105	60 - 144				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

**Batch ID:** 214532 ( 0 )      **Instrument:** ECD\_15      **Method:** CHLORINATED PEST/PCBS BY E608

LCS		Sample ID: LCS1-214532		Units: ug/L		Analysis Date: 16-Jul-2024 08:59				
Client ID:		Run ID: ECD_15_472017		SeqNo: 8140938		PrepDate: 05-Jul-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.5497	0.100	0.5	0	110	53 - 144				
4,4'-DDE	0.5457	0.100	0.5	0	109	55 - 144				
4,4'-DDT	0.4904	0.100	0.5	0	98.1	53 - 149				
Aldrin	0.2757	0.0500	0.25	0	110	47 - 141				
alpha-BHC	0.29	0.0500	0.25	0	116	51 - 141				
beta-BHC	0.269	0.0500	0.25	0	108	58 - 144				
delta-BHC	0.2832	0.0500	0.25	0	113	48 - 146				
Dieldrin	0.5518	0.100	0.5	0	110	56 - 144				
Endosulfan I	0.2595	0.0500	0.25	0	104	55 - 141				
Endosulfan II	0.4957	0.100	0.5	0	99.1	57 - 144				
Endosulfan sulfate	0.531	0.100	0.5	0	106	58 - 145				
Endrin	0.5521	0.100	0.5	0	110	60 - 163				
Endrin aldehyde	0.5304	0.100	0.5	0	106	59 - 158				
gamma-BHC	0.2866	0.0500	0.25	0	115	53 - 142				
Heptachlor	0.292	0.0500	0.25	0	117	51 - 144				
Heptachlor epoxide	0.2736	0.0500	0.25	0	109	55 - 142				
<i>Surr: Decachlorobiphenyl</i>	<i>0.2408</i>	<i>0.100</i>	<i>0.2</i>	<i>0</i>	<i>120</i>	<i>61 - 154</i>				
<i>Surr: Tetrachlor-m-xylene</i>	<i>0.2127</i>	<i>0.0500</i>	<i>0.2</i>	<i>0</i>	<i>106</i>	<i>60 - 144</i>				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

**Batch ID:** 214532 ( 0 )      **Instrument:** ECD\_15      **Method:** CHLORINATED PEST/PCBS BY E608

LCSD		Sample ID: LCSD1-214532		Units: ug/L		Analysis Date: 16-Jul-2024 09:19				
Client ID:		Run ID: ECD_15_472017		SeqNo: 8140939		PrepDate: 05-Jul-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.5617	0.100	0.5	0	112	53 - 144	0.5497	2.16	20	
4,4'-DDE	0.5546	0.100	0.5	0	111	55 - 144	0.5457	1.6	20	
4,4'-DDT	0.5	0.100	0.5	0	100.0	53 - 149	0.4904	1.93	20	
Aldrin	0.2804	0.0500	0.25	0	112	47 - 141	0.2757	1.68	20	
alpha-BHC	0.2907	0.0500	0.25	0	116	51 - 141	0.29	0.241	20	
beta-BHC	0.2722	0.0500	0.25	0	109	58 - 144	0.269	1.19	20	
delta-BHC	0.2863	0.0500	0.25	0	115	48 - 146	0.2832	1.09	20	
Dieldrin	0.5597	0.100	0.5	0	112	56 - 144	0.5518	1.42	20	
Endosulfan I	0.2651	0.0500	0.25	0	106	55 - 141	0.2595	2.15	20	
Endosulfan II	0.51	0.100	0.5	0	102	57 - 144	0.4957	2.85	20	
Endosulfan sulfate	0.5404	0.100	0.5	0	108	58 - 145	0.531	1.75	20	
Endrin	0.5625	0.100	0.5	0	112	60 - 163	0.5521	1.85	20	
Endrin aldehyde	0.538	0.100	0.5	0	108	59 - 158	0.5304	1.42	20	
gamma-BHC	0.2882	0.0500	0.25	0	115	53 - 142	0.2866	0.529	20	
Heptachlor	0.2912	0.0500	0.25	0	116	51 - 144	0.292	0.281	20	
Heptachlor epoxide	0.2777	0.0500	0.25	0	111	55 - 142	0.2736	1.52	20	
Surr: Decachlorobiphenyl	0.2475	0.100	0.2	0	124	61 - 154	0.2408	2.76	20	
Surr: Tetrachlor-m-xylene	0.2118	0.0500	0.2	0	106	60 - 144	0.2127	0.434	20	

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

**Batch ID:** 214532 ( 1 )      **Instrument:** ECD\_7      **Method:** CHLORINATED PEST/PCBS BY E608

MBLK		Sample ID: MBLK-214532			Units: ug/L		Analysis Date: 12-Jul-2024 23:56			
Client ID:		Run ID: ECD_7_471888			SeqNo: 8138068		PrepDate: 05-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	0.500								
Aroclor 1221	U	0.500								
Aroclor 1232	U	0.500								
Aroclor 1242	U	0.500								
Aroclor 1248	U	0.500								
Aroclor 1254	U	0.500								
Aroclor 1260	U	0.500								
<i>Surr: Decachlorobiphenyl</i>	0.194	0.100	0.2	0	97.0	61 - 154				
<i>Surr: Tetrachlor-m-xylene</i>	0.1802	0.0500	0.2	0	90.1	60 - 144				

LCS		Sample ID: LCS-214532			Units: ug/L		Analysis Date: 12-Jul-2024 23:31			
Client ID:		Run ID: ECD_7_471888			SeqNo: 8138066		PrepDate: 05-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.964	0.500	5	0	99.3	54 - 138				
Aroclor 1260	4.196	0.500	5	0	83.9	57 - 136				
<i>Surr: Decachlorobiphenyl</i>	0.1996	0.100	0.2	0	99.8	61 - 154				
<i>Surr: Tetrachlor-m-xylene</i>	0.1751	0.0500	0.2	0	87.5	60 - 144				

LCSD		Sample ID: LCSD-214532			Units: ug/L		Analysis Date: 12-Jul-2024 23:43			
Client ID:		Run ID: ECD_7_471888			SeqNo: 8138067		PrepDate: 05-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.684	0.500	5	0	93.7	54 - 138	4.964	5.8	20	
Aroclor 1260	4.321	0.500	5	0	86.4	57 - 136	4.196	2.94	20	
<i>Surr: Decachlorobiphenyl</i>	0.2092	0.100	0.2	0	105	61 - 154	0.1996	4.67	20	
<i>Surr: Tetrachlor-m-xylene</i>	0.1864	0.0500	0.2	0	93.2	60 - 144	0.1751	6.29	20	

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

<b>Batch ID:</b> 214754 ( 1 )		<b>Instrument:</b> ICPMS06		<b>Method:</b> TOTAL METALS BY E200.8, REV 5.4, 1994						
<b>MBLK</b>	Sample ID: <b>MBLK-214754</b>	Units: <b>ug/l</b>		Analysis Date: <b>13-Jul-2024 20:16</b>						
Client ID:	Run ID: <b>ICPMS06_471865</b>	SeqNo: <b>8137662</b>	PrepDate: <b>12-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Aluminum	U	10.0								
Antimony	U	5.00								
Arsenic	U	2.00								
Barium	U	4.00								
Beryllium	U	5.00								
Cadmium	U	2.00								
Chromium	U	4.00								
Copper	U	2.00								
Iron	U	200								
Lead	U	2.00								
Magnesium	U	500								
Manganese	0.175	5.00								J
Molybdenum	U	5.00								
Nickel	0.315	2.00								J
Selenium	U	2.00								
Silver	U	2.00								
Thallium	U	2.00								
Zinc	U	4.00								

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

**Batch ID:** 214754 ( 1 )      **Instrument:** ICPMS06      **Method:** TOTAL METALS BY E200.8, REV 5.4, 1994

LCS		Sample ID: LCS-214754			Units: ug/l		Analysis Date: 13-Jul-2024 20:20			
Client ID:		Run ID: ICPMS06_471865			SeqNo: 8137664		PrepDate: 12-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	111.3	10.0	100	0	111	85 - 115				
Antimony	47.03	5.00	50	0	94.1	85 - 115				
Arsenic	46.95	2.00	50	0	93.9	85 - 115				
Barium	47.26	4.00	50	0	94.5	85 - 115				
Beryllium	46.8	5.00	50	0	93.6	85 - 115				
Cadmium	46.65	2.00	50	0	93.3	85 - 115				
Chromium	48.48	4.00	50	0	97.0	85 - 115				
Copper	49.43	2.00	50	0	98.9	85 - 115				
Iron	4751	200	5000	0	95.0	85 - 115				
Lead	46.05	2.00	50	0	92.1	85 - 115				
Magnesium	4667	500	5000	0	93.3	85 - 115				
Manganese	50.72	5.00	50	0	101	85 - 115				
Molybdenum	47.98	5.00	50	0	96.0	85 - 115				
Nickel	47.91	2.00	50	0	95.8	85 - 115				
Selenium	46.4	2.00	50	0	92.8	85 - 115				
Silver	43.7	2.00	50	0	87.4	85 - 115				
Zinc	55.97	4.00	50	0	112	85 - 115				

LCS		Sample ID: LCS-214754			Units: ug/l		Analysis Date: 14-Jul-2024 11:17			
Client ID:		Run ID: ICPMS06_471880			SeqNo: 8137783		PrepDate: 12-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	50.35	2.00	50	0	101	85 - 115				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

**Batch ID:** 214754 ( 1 )      **Instrument:** ICPMS06      **Method:** TOTAL METALS BY E200.8, REV 5.4, 1994

LCSD		Sample ID: LCSD-214754			Units: ug/l		Analysis Date: 13-Jul-2024 20:21			
Client ID:		Run ID: ICPMS06_471865			SeqNo: 8137665		PrepDate: 12-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	108.8	10.0	100	0	109	85 - 115	111.3	2.28	20	
Antimony	46.06	5.00	50	0	92.1	85 - 115	47.03	2.09	20	
Arsenic	46.11	2.00	50	0	92.2	85 - 115	46.95	1.82	20	
Barium	46.49	4.00	50	0	93.0	85 - 115	47.26	1.63	20	
Beryllium	47.61	5.00	50	0	95.2	85 - 115	46.8	1.71	20	
Cadmium	46.51	2.00	50	0	93.0	85 - 115	46.65	0.301	20	
Chromium	47.61	4.00	50	0	95.2	85 - 115	48.48	1.81	20	
Copper	48.64	2.00	50	0	97.3	85 - 115	49.43	1.6	20	
Iron	4693	200	5000	0	93.9	85 - 115	4751	1.22	20	
Lead	46.43	2.00	50	0	92.9	85 - 115	46.05	0.822	20	
Magnesium	4642	500	5000	0	92.8	85 - 115	4667	0.537	20	
Manganese	50.2	5.00	50	0	100	85 - 115	50.72	1.03	20	
Molybdenum	48.85	5.00	50	0	97.7	85 - 115	47.98	1.79	20	
Nickel	47.09	2.00	50	0	94.2	85 - 115	47.91	1.72	20	
Selenium	45.61	2.00	50	0	91.2	85 - 115	46.4	1.71	20	
Silver	44.1	2.00	50	0	88.2	85 - 115	43.7	0.9	20	
Zinc	54.82	4.00	50	0	110	85 - 115	55.97	2.08	20	

LCSD		Sample ID: LCSD-214754			Units: ug/l		Analysis Date: 14-Jul-2024 11:19			
Client ID:		Run ID: ICPMS06_471880			SeqNo: 8137784		PrepDate: 12-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	50.03	2.00	50	0	100	85 - 115	50.35	0.632	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214754 ( 1 )		Instrument: ICPMS06		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MS	Sample ID: HS24070173-01MS	Units: ug/l			Analysis Date: 13-Jul-2024 20:40					
Client ID:	Run ID: ICPMS06_471865	SeqNo: 8137670	PrepDate: 12-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	157.2	10.0	100	56.72	100	70 - 130				
Antimony	45.37	5.00	50	0.538	89.7	70 - 130				
Arsenic	79.05	2.00	50	31.79	94.5	70 - 130				
Barium	277.4	4.00	50	235.4	83.9	70 - 130				O
Beryllium	48.27	5.00	50	0.01	96.5	70 - 130				
Cadmium	44.97	2.00	50	0.019	89.9	70 - 130				
Chromium	60.1	4.00	50	14.19	91.8	70 - 130				
Copper	62.57	2.00	50	17.34	90.5	70 - 130				
Iron	4736	200	5000	153	91.7	70 - 130				
Lead	45.86	2.00	50	0.041	91.6	70 - 130				
Magnesium	29260	500	5000	24000	105	70 - 130				O
Manganese	68.59	5.00	50	21.1	95.0	70 - 130				
Molybdenum	52.11	5.00	50	4.28	95.7	70 - 130				
Nickel	46.22	2.00	50	2.528	87.4	70 - 130				
Selenium	48.15	2.00	50	0.706	94.9	70 - 130				
Silver	40.59	2.00	50	-0.027	81.2	70 - 130				
Thallium	38.55	2.00	50	0.048	77.0	70 - 130				
Zinc	55.66	4.00	50	7.196	96.9	70 - 130				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214754 ( 1 )		Instrument: ICPMS06		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MS	Sample ID: HS24061772-01MS	Units: ug/l			Analysis Date: 13-Jul-2024 20:29					
Client ID:	Run ID: ICPMS06_471865	SeqNo: 8137667	PrepDate: 12-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	397.2	10.0	100	268.3	129	70 - 130				
Antimony	42.67	5.00	50	0.08	85.2	70 - 130				
Arsenic	47.88	2.00	50	0.193	95.4	70 - 130				
Barium	770.2	4.00	50	739.9	60.6	70 - 130				SO
Beryllium	50.11	5.00	50	0.128	100.0	70 - 130				
Cadmium	46.08	2.00	50	0.046	92.1	70 - 130				
Chromium	49.61	4.00	50	1.876	95.5	70 - 130				
Copper	229.3	2.00	50	191.3	76.0	70 - 130				
Iron	6988	200	5000	2362	92.5	70 - 130				
Lead	383.9	2.00	50	342.1	83.7	70 - 130				O
Magnesium	12680	500	5000	7675	100	70 - 130				
Manganese	116.8	5.00	50	70.88	91.9	70 - 130				
Molybdenum	51.99	5.00	50	4.581	94.8	70 - 130				
Nickel	44.99	2.00	50	1.841	86.3	70 - 130				
Selenium	46.8	2.00	50	0.507	92.6	70 - 130				
Silver	38.1	2.00	50	-0.037	76.3	70 - 130				
Thallium	40.25	2.00	50	0.073	80.4	70 - 130				
Zinc	202.8	4.00	50	148.3	109	70 - 130				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214754 ( 1 )		Instrument: ICPMS06		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MSD	Sample ID: HS24070173-01MSD	Units: ug/l			Analysis Date: 13-Jul-2024 20:42					
Client ID:	Run ID: ICPMS06_471865	SeqNo: 8137671	PrepDate: 12-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	156	10.0	100	56.72	99.3	70 - 130	157.2	0.763	20	
Antimony	46.12	5.00	50	0.538	91.2	70 - 130	45.37	1.65	20	
Arsenic	80.11	2.00	50	31.79	96.7	70 - 130	79.05	1.34	20	
Barium	279.9	4.00	50	235.4	88.9	70 - 130	277.4	0.906	20	O
Beryllium	47.78	5.00	50	0.01	95.5	70 - 130	48.27	1.03	20	
Cadmium	45.54	2.00	50	0.019	91.0	70 - 130	44.97	1.26	20	
Chromium	60.58	4.00	50	14.19	92.8	70 - 130	60.1	0.792	20	
Copper	63	2.00	50	17.34	91.3	70 - 130	62.57	0.683	20	
Iron	4730	200	5000	153	91.5	70 - 130	4736	0.144	20	
Lead	46.72	2.00	50	0.041	93.4	70 - 130	45.86	1.85	20	
Magnesium	29390	500	5000	24000	108	70 - 130	29260	0.44	20	O
Manganese	68.58	5.00	50	21.1	95.0	70 - 130	68.59	0.00875	20	
Molybdenum	53.41	5.00	50	4.28	98.3	70 - 130	52.11	2.48	20	
Nickel	46.97	2.00	50	2.528	88.9	70 - 130	46.22	1.6	20	
Selenium	46.92	2.00	50	0.706	92.4	70 - 130	48.15	2.59	20	
Silver	41.32	2.00	50	-0.027	82.7	70 - 130	40.59	1.77	20	
Thallium	40.61	2.00	50	0.048	81.1	70 - 130	38.55	5.2	20	
Zinc	55.74	4.00	50	7.196	97.1	70 - 130	55.66	0.147	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214754 ( 1 )		Instrument: ICPMS06		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MSD	Sample ID: HS24061772-01MSD	Units: ug/l			Analysis Date: 13-Jul-2024 20:31					
Client ID:	Run ID: ICPMS06_471865	SeqNo: 8137668	PrepDate: 12-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	384.4	10.0	100	268.3	116	70 - 130	397.2	3.27	20	
Antimony	42.55	5.00	50	0.08	84.9	70 - 130	42.67	0.298	20	
Arsenic	46.95	2.00	50	0.193	93.5	70 - 130	47.88	1.97	20	
Barium	772.2	4.00	50	739.9	64.6	70 - 130	770.2	0.255	20	SO
Beryllium	49.93	5.00	50	0.128	99.6	70 - 130	50.11	0.36	20	
Cadmium	45.5	2.00	50	0.046	90.9	70 - 130	46.08	1.28	20	
Chromium	48.88	4.00	50	1.876	94.0	70 - 130	49.61	1.47	20	
Copper	229.2	2.00	50	191.3	75.9	70 - 130	229.3	0.00785	20	
Iron	6866	200	5000	2362	90.1	70 - 130	6988	1.76	20	
Lead	383.2	2.00	50	342.1	82.2	70 - 130	383.9	0.2	20	O
Magnesium	12390	500	5000	7675	94.3	70 - 130	12680	2.35	20	
Manganese	113.8	5.00	50	70.88	85.8	70 - 130	116.8	2.64	20	
Molybdenum	51.19	5.00	50	4.581	93.2	70 - 130	51.99	1.56	20	
Nickel	44.75	2.00	50	1.841	85.8	70 - 130	44.99	0.526	20	
Selenium	46.63	2.00	50	0.507	92.2	70 - 130	46.8	0.366	20	
Silver	37.2	2.00	50	-0.037	74.5	70 - 130	38.1	2.37	20	
Thallium	41.15	2.00	50	0.073	82.1	70 - 130	40.25	2.2	20	
Zinc	198.3	4.00	50	148.3	100	70 - 130	202.8	2.26	20	

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
MBLK	Sample ID: MBLK-214559	Units: ug/L			Analysis Date: 11-Jul-2024 15:15					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136912	PrepDate: 05-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	U	5.00								
1,2,4-Trichlorobenzene	U	5.00								
1,2-Diphenylhydrazine	U	5.00								
2,4,5-Trichlorophenol	U	5.00								
2,4,6-Trichlorophenol	U	5.00								
2,4-Dichlorophenol	U	5.00								
2,4-Dimethylphenol	U	5.00								
2,4-Dinitrophenol	U	5.00								
2,4-Dinitrotoluene	U	5.00								
2,6-Dinitrotoluene	U	5.00								
2-Chloronaphthalene	U	5.00								
2-Chlorophenol	U	5.00								
2-Methylphenol	U	5.00								
2-Nitrophenol	U	5.00								
3&4-Methylphenol	U	5.00								
3,3'-Dichlorobenzidine	U	5.00								
4,6-Dinitro-2-methylphenol	U	5.00								
4-Bromophenyl phenyl ether	U	5.00								
4-Chloro-3-methylphenol	U	5.00								
4-Chlorophenyl phenyl ether	U	5.00								
4-Nitrophenol	U	5.00								
Acenaphthene	U	5.00								
Acenaphthylene	U	5.00								
Anthracene	U	5.00								
Benz(a)anthracene	U	5.00								
Benzidine	U	5.00								
Benzo(a)pyrene	U	5.00								
Benzo(b)fluoranthene	U	5.00								
Benzo(g,h,i)perylene	U	5.00								
Benzo(k)fluoranthene	U	5.00								
Bis(2-chloroethoxy)methane	U	5.00								
Bis(2-chloroethyl)ether	U	5.00								
Bis(2-chloroisopropyl)ether	U	5.00								
Bis(2-ethylhexyl)phthalate	U	5.00								

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
MBLK	Sample ID: MBLK-214559	Units: ug/L			Analysis Date: 11-Jul-2024 15:15					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136912	PrepDate: 05-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Butyl benzyl phthalate	U	5.00								
Chrysene	U	5.00								
Dibenz(a,h)anthracene	U	5.00								
Diethyl phthalate	U	5.00								
Dimethyl phthalate	U	5.00								
Di-n-butyl phthalate	U	5.00								
Di-n-octyl phthalate	U	5.00								
Fluoranthene	U	5.00								
Fluorene	U	5.00								
Hexachlorobenzene	U	5.00								
Hexachlorobutadiene	U	5.00								
Hexachlorocyclopentadiene	U	5.00								
Hexachloroethane	U	5.00								
Indeno(1,2,3-cd)pyrene	U	5.00								
Isophorone	U	5.00								
Nitrobenzene	U	5.00								
N-Nitrosodiethylamine	U	5.00								
N-Nitrosodimethylamine	U	5.00								
N-Nitroso-di-n-butylamine	U	5.00								
N-Nitrosodi-n-propylamine	U	5.00								
N-Nitrosodiphenylamine	U	5.00								
Nonylphenol	U	5.00								
Pentachlorobenzene	U	5.00								
Pentachlorophenol	U	5.00								
Phenanthrene	U	5.00								
Phenol	U	5.00								
Pyrene	U	5.00								
Pyridine	U	5.00								
Surr: 2,4,6-Tribromophenol	81.85	5.00	100	0	81.8	42 - 124				
Surr: 2-Fluorobiphenyl	88.09	5.00	100	0	88.1	48 - 120				
Surr: 2-Fluorophenol	72.25	5.00	100	0	72.3	20 - 120				
Surr: 4-Terphenyl-d14	86.99	5.00	100	0	87.0	51 - 135				
Surr: Nitrobenzene-d5	80.91	5.00	100	0	80.9	41 - 120				
Surr: Phenol-d6	74.54	5.00	100	0	74.5	20 - 120				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS-214559	Units: ug/L			Analysis Date: 11-Jul-2024 15:37					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136913	PrepDate: 05-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	86.43	5.00	100	0	86.4	49 - 120				
1,2,4-Trichlorobenzene	80.57	5.00	100	0	80.6	54 - 118				
1,2-Diphenylhydrazine	81.04	5.00	100	0	81.0	57 - 134				
2,4,5-Trichlorophenol	80.7	5.00	100	0	80.7	52 - 115				
2,4,6-Trichlorophenol	89.03	5.00	100	0	89.0	56 - 115				
2,4-Dichlorophenol	81.86	5.00	100	0	81.9	53 - 115				
2,4-Dimethylphenol	89.7	5.00	100	0	89.7	53 - 115				
2,4-Dinitrophenol	95.64	5.00	100	0	95.6	47 - 115				
2,4-Dinitrotoluene	83.11	5.00	100	0	83.1	56 - 115				
2,6-Dinitrotoluene	84.77	5.00	100	0	84.8	57 - 115				
2-Chloronaphthalene	89.8	5.00	100	0	89.8	65 - 125				
2-Chlorophenol	80.1	5.00	100	0	80.1	54 - 115				
2-Methylphenol	78.75	5.00	100	0	78.8	53 - 115				
2-Nitrophenol	82.39	5.00	100	0	82.4	53 - 115				
3&4-Methylphenol	78.5	5.00	100	0	78.5	48 - 115				
3,3'-Dichlorobenzidine	33.04	5.00	100	0	33.0	25 - 115				
4,6-Dinitro-2-methylphenol	99.02	5.00	100	0	99.0	51 - 121				
4-Bromophenyl phenyl ether	89.47	5.00	100	0	89.5	49 - 115				
4-Chloro-3-methylphenol	80.61	5.00	100	0	80.6	51 - 115				
4-Chlorophenyl phenyl ether	77.92	5.00	100	0	77.9	56 - 115				
4-Nitrophenol	80.73	5.00	100	0	80.7	26 - 133				
Acenaphthene	81.6	5.00	100	0	81.6	57 - 115				
Acenaphthylene	83.98	5.00	100	0	84.0	57 - 118				
Anthracene	89.74	5.00	100	0	89.7	65 - 115				
Benz(a)anthracene	86.73	5.00	100	0	86.7	53 - 115				
Benzidine	5.476	5.00	100	0	5.48	10 - 115				S
Benzo(a)pyrene	89.56	5.00	100	0	89.6	57 - 115				
Benzo(b)fluoranthene	98.24	5.00	100	0	98.2	54 - 117				
Benzo(g,h,i)perylene	87	5.00	100	0	87.0	56 - 115				
Benzo(k)fluoranthene	85.89	5.00	100	0	85.9	50 - 115				
Bis(2-chloroethoxy)methane	77.52	5.00	100	0	77.5	54 - 115				
Bis(2-chloroethyl)ether	75.18	5.00	100	0	75.2	56 - 115				
Bis(2-chloroisopropyl)ether	76.35	5.00	100	0	76.4	48 - 115				
Bis(2-ethylhexyl)phthalate	78.67	5.00	100	0	78.7	50 - 115				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS-214559	Units: ug/L			Analysis Date: 11-Jul-2024 15:37					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136913		PrepDate: 05-Jul-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Butyl benzyl phthalate	82.98	5.00	100	0	83.0	51 - 115				
Chrysene	84.41	5.00	100	0	84.4	52 - 120				
Dibenz(a,h)anthracene	87.88	5.00	100	0	87.9	56 - 115				
Diethyl phthalate	83.02	5.00	100	0	83.0	57 - 115				
Dimethyl phthalate	82.93	5.00	100	0	82.9	56 - 115				
Di-n-butyl phthalate	89.59	5.00	100	0	89.6	54 - 115				
Di-n-octyl phthalate	82.15	5.00	100	0	82.2	49 - 115				
Fluoranthene	90.22	5.00	100	0	90.2	58 - 115				
Fluorene	81.14	5.00	100	0	81.1	56 - 115				
Hexachlorobenzene	93.73	5.00	100	0	93.7	54 - 115				
Hexachlorobutadiene	80.51	5.00	100	0	80.5	51 - 115				
Hexachlorocyclopentadiene	87.03	5.00	100	0	87.0	48 - 115				
Hexachloroethane	76.65	5.00	100	0	76.6	54 - 115				
Indeno(1,2,3-cd)pyrene	88.58	5.00	100	0	88.6	51 - 115				
Isophorone	77.72	5.00	100	0	77.7	55 - 115				
Nitrobenzene	73.99	5.00	100	0	74.0	40 - 124				
N-Nitrosodiethylamine	U	5.00	50	0	0	40 - 130			S	
N-Nitrosodimethylamine	69.71	5.00	100	0	69.7	42 - 115				
N-Nitroso-di-n-butylamine	U	5.00	50	0	0	40 - 130			S	
N-Nitrosodi-n-propylamine	73.3	5.00	100	0	73.3	55 - 119				
N-Nitrosodiphenylamine	89.23	5.00	100	0	89.2	52 - 115				
Pentachlorobenzene	91.21	5.00	100	0	91.2	50 - 117				
Pentachlorophenol	92.93	5.00	100	0	92.9	45 - 125				
Phenanthrene	90.31	5.00	100	0	90.3	57 - 115				
Phenol	77.2	5.00	100	0	77.2	38 - 115				
Pyrene	87.17	5.00	100	0	87.2	54 - 119				
Pyridine	60.24	5.00	100	0	60.2	34 - 115				
Surr: 2,4,6-Tribromophenol	85.03	5.00	100	0	85.0	42 - 124				
Surr: 2-Fluorobiphenyl	85.19	5.00	100	0	85.2	48 - 120				
Surr: 2-Fluorophenol	76.82	5.00	100	0	76.8	20 - 120				
Surr: 4-Terphenyl-d14	85.95	5.00	100	0	86.0	51 - 135				
Surr: Nitrobenzene-d5	76.36	5.00	100	0	76.4	41 - 120				
Surr: Phenol-d6	78.56	5.00	100	0	78.6	20 - 120				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS1-214559	Units: ug/L			Analysis Date: 11-Jul-2024 16:21					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136915		PrepDate: 05-Jul-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nonylphenol	48.92	5.00	50	0	97.8	40 - 140				
<i>Surr: 2,4,6-Tribromophenol</i>	3.965	5.00	5	0	79.3	42 - 124				J
<i>Surr: 2-Fluorobiphenyl</i>	3.695	5.00	5	0	73.9	48 - 120				J
<i>Surr: 2-Fluorophenol</i>	3.306	5.00	5	0	66.1	20 - 120				J
<i>Surr: 4-Terphenyl-d14</i>	3.875	5.00	5	0	77.5	51 - 135				J
<i>Surr: Nitrobenzene-d5</i>	3.612	5.00	5	0	72.2	41 - 120				J
<i>Surr: Phenol-d6</i>	3.284	5.00	5	0	65.7	20 - 120				J

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCSD		Sample ID: LCSD-214559		Units: ug/L		Analysis Date: 11-Jul-2024 15:59				
Client ID:		Run ID: SV-4_471855		SeqNo: 8136914		PrepDate: 05-Jul-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	97.27	5.00	100	0	97.3	49 - 120	86.43	11.8	20	
1,2,4-Trichlorobenzene	87.19	5.00	100	0	87.2	54 - 118	80.57	7.9	20	
1,2-Diphenylhydrazine	97.02	5.00	100	0	97.0	57 - 134	81.04	17.9	20	
2,4,5-Trichlorophenol	88.91	5.00	100	0	88.9	52 - 115	80.7	9.68	20	
2,4,6-Trichlorophenol	94.84	5.00	100	0	94.8	56 - 115	89.03	6.32	20	
2,4-Dichlorophenol	88.55	5.00	100	0	88.6	53 - 115	81.86	7.85	20	
2,4-Dimethylphenol	96.52	5.00	100	0	96.5	53 - 115	89.7	7.32	20	
2,4-Dinitrophenol	95.55	5.00	100	0	95.6	47 - 115	95.64	0.0915	20	
2,4-Dinitrotoluene	83.69	5.00	100	0	83.7	56 - 115	83.11	0.705	20	
2,6-Dinitrotoluene	90.48	5.00	100	0	90.5	57 - 115	84.77	6.52	20	
2-Chloronaphthalene	106.9	5.00	100	0	107	65 - 125	89.8	17.4	20	
2-Chlorophenol	89.21	5.00	100	0	89.2	54 - 115	80.1	10.8	20	
2-Methylphenol	86.93	5.00	100	0	86.9	53 - 115	78.75	9.87	20	
2-Nitrophenol	89.18	5.00	100	0	89.2	53 - 115	82.39	7.91	20	
3&4-Methylphenol	77.71	5.00	100	0	77.7	48 - 115	78.5	1	20	
3,3'-Dichlorobenzidine	43.17	5.00	100	0	43.2	25 - 115	33.04	26.6	20	R
4,6-Dinitro-2-methylphenol	98.3	5.00	100	0	98.3	51 - 121	99.02	0.724	20	
4-Bromophenyl phenyl ether	95.45	5.00	100	0	95.5	49 - 115	89.47	6.47	20	
4-Chloro-3-methylphenol	80.69	5.00	100	0	80.7	51 - 115	80.61	0.104	20	
4-Chlorophenyl phenyl ether	83.24	5.00	100	0	83.2	56 - 115	77.92	6.6	20	
4-Nitrophenol	75.15	5.00	100	0	75.1	26 - 133	80.73	7.17	20	
Acenaphthene	87.73	5.00	100	0	87.7	57 - 115	81.6	7.23	20	
Acenaphthylene	91.03	5.00	100	0	91.0	57 - 118	83.98	8.06	20	
Anthracene	93.88	5.00	100	0	93.9	65 - 115	89.74	4.51	20	
Benz(a)anthracene	93.48	5.00	100	0	93.5	53 - 115	86.73	7.49	20	
Benzidine	7.05	5.00	100	0	7.05	10 - 115	5.476	25.1	20	SR
Benzo(a)pyrene	91.57	5.00	100	0	91.6	57 - 115	89.56	2.22	20	
Benzo(b)fluoranthene	108.4	5.00	100	0	108	54 - 117	98.24	9.8	20	
Benzo(g,h,i)perylene	86.04	5.00	100	0	86.0	56 - 115	87	1.12	20	
Benzo(k)fluoranthene	81.87	5.00	100	0	81.9	50 - 115	85.89	4.78	20	
Bis(2-chloroethoxy)methane	84.4	5.00	100	0	84.4	54 - 115	77.52	8.5	20	
Bis(2-chloroethyl)ether	108.6	5.00	100	0	109	56 - 115	75.18	36.3	20	R
Bis(2-chloroisopropyl)ether	80.82	5.00	100	0	80.8	48 - 115	76.35	5.68	20	
Bis(2-ethylhexyl)phthalate	88.4	5.00	100	0	88.4	50 - 115	78.67	11.6	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCSD		Sample ID: LCSD-214559		Units: ug/L		Analysis Date: 11-Jul-2024 15:59				
Client ID:		Run ID: SV-4_471855		SeqNo: 8136914		PrepDate: 05-Jul-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Butyl benzyl phthalate	88.8	5.00	100	0	88.8	51 - 115	82.98	6.77	20	
Chrysene	84.64	5.00	100	0	84.6	52 - 120	84.41	0.277	20	
Dibenz(a,h)anthracene	90.75	5.00	100	0	90.7	56 - 115	87.88	3.21	20	
Diethyl phthalate	85.78	5.00	100	0	85.8	57 - 115	83.02	3.27	20	
Dimethyl phthalate	86.88	5.00	100	0	86.9	56 - 115	82.93	4.65	20	
Di-n-butyl phthalate	98.17	5.00	100	0	98.2	54 - 115	89.59	9.14	20	
Di-n-octyl phthalate	89.37	5.00	100	0	89.4	49 - 115	82.15	8.42	20	
Fluoranthene	93.52	5.00	100	0	93.5	58 - 115	90.22	3.59	20	
Fluorene	84.76	5.00	100	0	84.8	56 - 115	81.14	4.37	20	
Hexachlorobenzene	99.27	5.00	100	0	99.3	54 - 115	93.73	5.74	20	
Hexachlorobutadiene	87.05	5.00	100	0	87.0	51 - 115	80.51	7.8	20	
Hexachlorocyclopentadiene	99.34	5.00	100	0	99.3	48 - 115	87.03	13.2	20	
Hexachloroethane	84.06	5.00	100	0	84.1	54 - 115	76.65	9.22	20	
Indeno(1,2,3-cd)pyrene	90.5	5.00	100	0	90.5	51 - 115	88.58	2.14	20	
Isophorone	82.29	5.00	100	0	82.3	55 - 115	77.72	5.71	20	
Nitrobenzene	80.6	5.00	100	0	80.6	40 - 124	73.99	8.56	20	
N-Nitrosodiethylamine	U	5.00	50	0	0	40 - 130	0	0	20	S
N-Nitrosodimethylamine	75.41	5.00	100	0	75.4	42 - 115	69.71	7.87	20	
N-Nitroso-di-n-butylamine	U	5.00	50	0	0	40 - 130	0	0	20	S
N-Nitrosodi-n-propylamine	64.21	5.00	100	0	64.2	55 - 119	73.3	13.2	20	
N-Nitrosodiphenylamine	97.15	5.00	100	0	97.2	52 - 115	89.23	8.49	20	
Nonylphenol	U	5.00	50	0	0	40 - 140	0	0	20	S
Pentachlorobenzene	98.94	5.00	100	0	98.9	50 - 117	91.21	8.13	20	
Pentachlorophenol	94.99	5.00	100	0	95.0	45 - 125	92.93	2.19	20	
Phenanthrene	94.03	5.00	100	0	94.0	57 - 115	90.31	4.04	20	
Phenol	87.85	5.00	100	0	87.8	38 - 115	77.2	12.9	20	
Pyrene	88.61	5.00	100	0	88.6	54 - 119	87.17	1.64	20	
Pyridine	60.59	5.00	100	0	60.6	34 - 115	60.24	0.576	20	
Surr: 2,4,6-Tribromophenol	86.28	5.00	100	0	86.3	42 - 124	85.03	1.46	20	
Surr: 2-Fluorobiphenyl	94.71	5.00	100	0	94.7	48 - 120	85.19	10.6	20	
Surr: 2-Fluorophenol	85.36	5.00	100	0	85.4	20 - 120	76.82	10.5	20	
Surr: 4-Terphenyl-d14	89	5.00	100	0	89.0	51 - 135	85.95	3.48	20	
Surr: Nitrobenzene-d5	81.86	5.00	100	0	81.9	41 - 120	76.36	6.95	20	
Surr: Phenol-d6	87.44	5.00	100	0	87.4	20 - 120	78.56	10.7	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCSD	Sample ID: LCSD1-214559	Units: ug/L			Analysis Date: 11-Jul-2024 16:43					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136916		PrepDate: 05-Jul-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nonylphenol	54.19	5.00	50	0	108	40 - 140	48.92	10.2	20	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.067</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>81.3</i>	<i>42 - 124</i>	<i>3.965</i>	<i>0</i>	<i>20</i>	<i>J</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>4.008</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>80.2</i>	<i>48 - 120</i>	<i>3.695</i>	<i>0</i>	<i>20</i>	<i>J</i>
<i>Surr: 2-Fluorophenol</i>	<i>3.425</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>68.5</i>	<i>20 - 120</i>	<i>3.306</i>	<i>0</i>	<i>20</i>	<i>J</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>4.461</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>89.2</i>	<i>51 - 135</i>	<i>3.875</i>	<i>0</i>	<i>20</i>	<i>J</i>
<i>Surr: Nitrobenzene-d5</i>	<i>3.925</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>78.5</i>	<i>41 - 120</i>	<i>3.612</i>	<i>0</i>	<i>20</i>	<i>J</i>
<i>Surr: Phenol-d6</i>	<i>3.53</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>70.6</i>	<i>20 - 120</i>	<i>3.284</i>	<i>0</i>	<i>20</i>	<i>J</i>

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: R470945 ( 0 )		Instrument: VOA7		Method: VOLATILES						
MBLK	Sample ID: VBLKW-240701	Units: ug/L			Analysis Date: 01-Jul-2024 11:44					
Client ID:	Run ID: VOA7_470945	SeqNo: 8111477	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.00								
1,1,2,2-Tetrachloroethane	U	5.00								
1,1,2-Trichloroethane	U	5.00								
1,1-Dichloroethane	U	5.00								
1,1-Dichloroethene	U	5.00								
1,2-Dibromoethane	U	5.00								
1,2-Dichlorobenzene	U	5.00								
1,2-Dichloroethane	U	5.00								
1,2-Dichloropropane	U	5.00								
1,3-Dichlorobenzene	U	5.00								
1,4-Dichlorobenzene	U	5.00								
2-Butanone	U	10.0								
2-Chloroethyl vinyl ether	U	10.0								
Acrolein	U	20.0								
Acrylonitrile	U	10.0								
Benzene	U	5.00								
Bromodichloromethane	U	5.00								
Bromoform	U	5.00								
Bromomethane	U	5.00								
Carbon tetrachloride	U	5.00								
Chlorobenzene	U	5.00								
Chloroethane	U	5.00								
Chloroform	U	5.00								
Chloromethane	U	5.00								
cis-1,3-Dichloropropene	U	5.00								
Dibromochloromethane	U	5.00								
Ethylbenzene	U	5.00								
m,p-Xylene	U	10.0								
Methylene chloride	U	10.0								
Naphthalene	U	5.00								
o-Xylene	U	5.00								
Tetrachloroethene	U	5.00								
Toluene	U	5.00								
trans-1,2-Dichloroethene	U	5.00								

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: R470945 ( 0 )		Instrument: VOA7		Method: VOLATILES						
MBLK	Sample ID: VBLKW-240701	Units: ug/L			Analysis Date: 01-Jul-2024 11:44					
Client ID:	Run ID: VOA7_470945	SeqNo: 8111477		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	U	5.00								
Trichloroethene	U	5.00								
Vinyl chloride	U	2.00								
1,3-Dichloropropene, Total	U	5.00								
Xylenes, Total	U	5.00								
<i>Surr: 1,2-Dichloroethane-d4</i>	48.05	5.00	50	0	96.1	70 - 126				
<i>Surr: 4-Bromofluorobenzene</i>	49	5.00	50	0	98.0	82 - 124				
<i>Surr: Dibromofluoromethane</i>	49.65	5.00	50	0	99.3	77 - 123				
<i>Surr: Toluene-d8</i>	50.91	5.00	50	0	102	82 - 127				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: R470945 ( 0 )		Instrument: VOA7			Method: VOLATILES					
LCS	Sample ID: VLCSW-240701	Units: ug/L			Analysis Date: 01-Jul-2024 10:36					
Client ID:	Run ID: VOA7_470945	SeqNo: 8111475		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.68	5.00	20	0	93.4	70 - 130				
1,1,2,2-Tetrachloroethane	19.09	5.00	20	0	95.5	70 - 120				
1,1,2-Trichloroethane	17.91	5.00	20	0	89.5	77 - 113				
1,1-Dichloroethane	19.55	5.00	20	0	97.8	71 - 122				
1,1-Dichloroethene	20.99	5.00	20	0	105	70 - 130				
1,2-Dibromoethane	18.74	5.00	20	0	93.7	76 - 123				
1,2-Dichlorobenzene	18.61	5.00	20	0	93.1	77 - 113				
1,2-Dichloroethane	17.69	5.00	20	0	88.5	70 - 124				
1,2-Dichloropropane	18.61	5.00	20	0	93.1	72 - 119				
1,3-Dichlorobenzene	18.89	5.00	20	0	94.4	78 - 118				
1,4-Dichlorobenzene	17.86	5.00	20	0	89.3	79 - 113				
2-Butanone	44.84	10.0	40	0	112	70 - 130				
2-Chloroethyl vinyl ether	38.26	10.0	40	0	95.7	60 - 135				
Acrolein	36.81	20.0	40	0	92.0	70 - 130				
Acrylonitrile	41.92	10.0	40	0	105	70 - 130				
Benzene	18.59	5.00	20	0	92.9	74 - 120				
Bromodichloromethane	18.09	5.00	20	0	90.5	74 - 122				
Bromoform	17.73	5.00	20	0	88.7	73 - 128				
Bromomethane	17.27	5.00	20	0	86.4	70 - 130				
Carbon tetrachloride	18.01	5.00	20	0	90.0	71 - 125				
Chlorobenzene	18.02	5.00	20	0	90.1	76 - 113				
Chloroethane	20.82	5.00	20	0	104	70 - 130				
Chloroform	18.61	5.00	20	0	93.0	71 - 121				
Chloromethane	19.43	5.00	20	0	97.1	70 - 129				
cis-1,3-Dichloropropene	17.72	5.00	20	0	88.6	73 - 127				
Dibromochloromethane	17.63	5.00	20	0	88.2	77 - 122				
Ethylbenzene	18.6	5.00	20	0	93.0	77 - 117				
m,p-Xylene	36.62	10.0	40	0	91.5	77 - 122				
Methylene chloride	19.27	10.0	20	0	96.4	70 - 127				
Naphthalene	19.16	5.00	20	0	95.8	70 - 130				
o-Xylene	18.72	5.00	20	0	93.6	75 - 119				
Tetrachloroethene	18.65	5.00	20	0	93.2	76 - 119				
Toluene	18.77	5.00	20	0	93.9	77 - 118				
trans-1,2-Dichloroethene	20.4	5.00	20	0	102	72 - 127				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: R470945 ( 0 )		Instrument: VOA7		Method: VOLATILES						
LCS	Sample ID: VLCSW-240701	Units: ug/L			Analysis Date: 01-Jul-2024 10:36					
Client ID:	Run ID: VOA7_470945	SeqNo: 8111475		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	17.72	5.00	20	0	88.6	77 - 119				
Trichloroethene	18.2	5.00	20	0	91.0	79 - 120				
Vinyl chloride	20.76	2.00	20	0	104	70 - 130				
1,3-Dichloropropene, Total	35.43	5.00	40	0	88.6	70 - 130				
Xylenes, Total	55.33	5.00	60	0	92.2	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.25</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>98.5</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.03</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>98.1</i>	<i>83 - 122</i>				
<i>Surr: Dibromofluoromethane</i>	<i>50.71</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>50.41</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 119</i>				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: R470945 ( 0 )		Instrument: VOA7			Method: VOLATILES					
LCSD		Sample ID: VLCSDW-240701			Units: ug/L		Analysis Date: 01-Jul-2024 10:59			
Client ID:		Run ID: VOA7_470945			SeqNo: 8111476		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.56	5.00	20	0	92.8	70 - 130	18.68	0.649	20	
1,1,2,2-Tetrachloroethane	19.09	5.00	20	0	95.5	70 - 120	19.09	0	20	
1,1,2-Trichloroethane	17.92	5.00	20	0	89.6	77 - 113	17.91	0.0918	20	
1,1-Dichloroethane	19.09	5.00	20	0	95.4	71 - 122	19.55	2.42	20	
1,1-Dichloroethene	20.49	5.00	20	0	102	70 - 130	20.99	2.4	20	
1,2-Dibromoethane	18.02	5.00	20	0	90.1	76 - 123	18.74	3.91	20	
1,2-Dichlorobenzene	18.41	5.00	20	0	92.1	77 - 113	18.61	1.07	20	
1,2-Dichloroethane	17.47	5.00	20	0	87.4	70 - 124	17.69	1.24	20	
1,2-Dichloropropane	18.21	5.00	20	0	91.0	72 - 119	18.61	2.2	20	
1,3-Dichlorobenzene	18.27	5.00	20	0	91.3	78 - 118	18.89	3.34	20	
1,4-Dichlorobenzene	17.57	5.00	20	0	87.8	79 - 113	17.86	1.64	20	
2-Butanone	41.08	10.0	40	0	103	70 - 130	44.84	8.75	20	
2-Chloroethyl vinyl ether	37.42	10.0	40	0	93.6	60 - 135	38.26	2.22	20	
Acrolein	42.46	20.0	40	0	106	70 - 130	36.81	14.3	20	
Acrylonitrile	42.43	10.0	40	0	106	70 - 130	41.92	1.22	20	
Benzene	18.1	5.00	20	0	90.5	74 - 120	18.59	2.66	20	
Bromodichloromethane	18.11	5.00	20	0	90.5	74 - 122	18.09	0.0793	20	
Bromoform	16.7	5.00	20	0	83.5	73 - 128	17.73	5.99	20	
Bromomethane	17.09	5.00	20	0	85.4	70 - 130	17.27	1.09	20	
Carbon tetrachloride	17.08	5.00	20	0	85.4	71 - 125	18.01	5.31	20	
Chlorobenzene	17.56	5.00	20	0	87.8	76 - 113	18.02	2.61	20	
Chloroethane	19.99	5.00	20	0	100.0	70 - 130	20.82	4.08	20	
Chloroform	18.65	5.00	20	0	93.3	71 - 121	18.61	0.238	20	
Chloromethane	18.58	5.00	20	0	92.9	70 - 129	19.43	4.47	20	
cis-1,3-Dichloropropene	17.78	5.00	20	0	88.9	73 - 127	17.72	0.353	20	
Dibromochloromethane	17.44	5.00	20	0	87.2	77 - 122	17.63	1.12	20	
Ethylbenzene	18.07	5.00	20	0	90.4	77 - 117	18.6	2.87	20	
m,p-Xylene	35.5	10.0	40	0	88.8	77 - 122	36.62	3.09	20	
Methylene chloride	19.22	10.0	20	0	96.1	70 - 127	19.27	0.27	20	
Naphthalene	18.31	5.00	20	0	91.6	70 - 130	19.16	4.51	20	
o-Xylene	18.17	5.00	20	0	90.9	75 - 119	18.72	2.95	20	
Tetrachloroethene	18.07	5.00	20	0	90.3	76 - 119	18.65	3.17	20	
Toluene	18.13	5.00	20	0	90.6	77 - 118	18.77	3.5	20	
trans-1,2-Dichloroethene	20.45	5.00	20	0	102	72 - 127	20.4	0.243	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: R470945 ( 0 )		Instrument: VOA7			Method: VOLATILES					
LCSD	Sample ID: VLCSDW-240701	Units: ug/L			Analysis Date: 01-Jul-2024 10:59					
Client ID:	Run ID: VOA7_470945	SeqNo: 8111476			PrepDate:			DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	17.78	5.00	20	0	88.9	77 - 119	17.72	0.353	20	
Trichloroethene	17.72	5.00	20	0	88.6	79 - 120	18.2	2.69	20	
Vinyl chloride	20.16	2.00	20	0	101	70 - 130	20.76	2.96	20	
1,3-Dichloropropene, Total	35.56	5.00	40	0	88.9	70 - 130	35.43	0.353	20	
Xylenes, Total	53.68	5.00	60	0	89.5	75 - 122	55.33	3.04	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.26</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>70 - 130</i>	<i>49.25</i>	<i>2.02</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>47.86</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>95.7</i>	<i>83 - 122</i>	<i>49.03</i>	<i>2.42</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>51.39</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>73 - 126</i>	<i>50.71</i>	<i>1.34</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.45</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 119</i>	<i>50.41</i>	<i>0.0738</i>	<i>20</i>	

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: 214261 ( 0 )		Instrument: Skalar 02		Method: BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011						
<b>MBLK</b>	Sample ID: <b>MBLK-214261</b>	Units: <b>mg/L</b>		Analysis Date: <b>03-Jul-2024 12:30</b>						
Client ID:	Run ID: <b>Skalar 02_471271</b>	SeqNo: <b>8125938</b>	PrepDate: <b>28-Jun-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Biochemical Oxygen Demand	U	2.00								
<b>LCS</b>	Sample ID: <b>LCS-214261</b>	Units: <b>mg/L</b>		Analysis Date: <b>03-Jul-2024 12:30</b>						
Client ID:	Run ID: <b>Skalar 02_471271</b>	SeqNo: <b>8125937</b>	PrepDate: <b>28-Jun-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Biochemical Oxygen Demand	204.7	2.00	198	0	103	84.6 - 115.4				
<b>DUP</b>	Sample ID: <b>HS24061712-01DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>03-Jul-2024 12:30</b>						
Client ID:	Run ID: <b>Skalar 02_471271</b>	SeqNo: <b>8125940</b>	PrepDate: <b>28-Jun-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Biochemical Oxygen Demand	U	2.00					0.94	0	20	

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

<b>Batch ID:</b> 214269 ( 0 )	<b>Instrument:</b> Skalar 02	<b>Method:</b> CBOD BY SM5210B-2011
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<b>MBLK</b>	Sample ID: <b>MBLK-214269</b>	Units: <b>mg/L</b>	Analysis Date: <b>05-Jul-2024 09:09</b>							
Client ID:	Run ID: <b>Skalar 02_471277</b>	SeqNo: <b>8124483</b>	PrepDate: <b>28-Jun-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Carbonaceous Biochemical Oxygen Demand U 2.00

<b>LCS</b>	Sample ID: <b>LCS-214269</b>	Units: <b>mg/L</b>	Analysis Date: <b>05-Jul-2024 09:09</b>							
Client ID:	Run ID: <b>Skalar 02_471277</b>	SeqNo: <b>8124482</b>	PrepDate: <b>28-Jun-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Carbonaceous Biochemical Oxygen Demand 205.8 2.00 198 0 104 84.6 - 115.4

<b>DUP</b>	Sample ID: <b>HS24061751-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>05-Jul-2024 09:09</b>							
Client ID:	Run ID: <b>Skalar 02_471277</b>	SeqNo: <b>8124481</b>	PrepDate: <b>28-Jun-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Carbonaceous Biochemical Oxygen Demand 4.58 2.00 4.06 12 20

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

<b>Batch ID:</b> 214777 ( 0 )		<b>Instrument:</b> UV-2450		<b>Method:</b> PHOSPHORUS BY E365.3-1978					
<b>MBLK</b>	Sample ID: <b>MBLK-214777</b>	Units: <b>mg/L</b>		Analysis Date: <b>12-Jul-2024 14:52</b>					
Client ID:	Run ID: <b>UV-2450_471833</b>	SeqNo: <b>8135504</b>		PrepDate: <b>12-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) U 0.0500

<b>LCS</b>	Sample ID: <b>LCS-214777</b>	Units: <b>mg/L</b>		Analysis Date: <b>12-Jul-2024 14:52</b>					
Client ID:	Run ID: <b>UV-2450_471833</b>	SeqNo: <b>8135503</b>		PrepDate: <b>12-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) 0.257 0.0500 0.25 0 103 80 - 120

<b>MS</b>	Sample ID: <b>HS24070420-01MS</b>	Units: <b>mg/L</b>		Analysis Date: <b>12-Jul-2024 14:52</b>					
Client ID:	Run ID: <b>UV-2450_471833</b>	SeqNo: <b>8135501</b>		PrepDate: <b>12-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) 0.244 0.0500 0.25 0 97.6 80 - 120

<b>MSD</b>	Sample ID: <b>HS24070420-01MSD</b>	Units: <b>mg/L</b>		Analysis Date: <b>12-Jul-2024 14:52</b>					
Client ID:	Run ID: <b>UV-2450_471833</b>	SeqNo: <b>8135502</b>		PrepDate: <b>12-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) 0.259 0.0500 0.25 0 104 80 - 120 0.244 5.96 20

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

**Batch ID:** 214794 ( 0 )      **Instrument:** UV-2450      **Method:** AMMONIA AS N BY SM4500 NH3-B-F-2011

<b>MBLK</b>	Sample ID: <b>MBLK-214794</b>	Units: <b>mg/L</b>			Analysis Date: <b>13-Jul-2024 08:29</b>				
Client ID:		Run ID: <b>UV-2450_471864</b>	SeqNo: <b>8136747</b>	PrepDate: <b>12-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Nitrogen, Ammonia (as N)      U      0.050

<b>LCS</b>	Sample ID: <b>LCS-214794</b>	Units: <b>mg/L</b>			Analysis Date: <b>13-Jul-2024 08:29</b>				
Client ID:		Run ID: <b>UV-2450_471864</b>	SeqNo: <b>8136746</b>	PrepDate: <b>12-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Nitrogen, Ammonia (as N)      0.484      0.050      0.5      0      96.8      85 - 115

<b>MS</b>	Sample ID: <b>HS24070079-01MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>13-Jul-2024 08:29</b>				
Client ID:		Run ID: <b>UV-2450_471864</b>	SeqNo: <b>8136744</b>	PrepDate: <b>12-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Nitrogen, Ammonia (as N)      1.71      0.10      1      0.824      88.6      80 - 120

<b>MS</b>	Sample ID: <b>HS24061759-02MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>13-Jul-2024 08:29</b>				
Client ID:		Run ID: <b>UV-2450_471864</b>	SeqNo: <b>8136742</b>	PrepDate: <b>12-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Nitrogen, Ammonia (as N)      0.585      0.050      0.5      0.103      96.4      80 - 120

<b>MSD</b>	Sample ID: <b>HS24070079-01MSD</b>	Units: <b>mg/L</b>			Analysis Date: <b>13-Jul-2024 08:29</b>				
Client ID:		Run ID: <b>UV-2450_471864</b>	SeqNo: <b>8136745</b>	PrepDate: <b>12-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Nitrogen, Ammonia (as N)      1.828      0.10      1      0.824      100      80 - 120      1.71      6.67      20

<b>MSD</b>	Sample ID: <b>HS24061759-02MSD</b>	Units: <b>mg/L</b>			Analysis Date: <b>13-Jul-2024 08:29</b>				
Client ID:		Run ID: <b>UV-2450_471864</b>	SeqNo: <b>8136743</b>	PrepDate: <b>12-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Nitrogen, Ammonia (as N)      0.559      0.050      0.5      0.103      91.2      80 - 120      0.585      4.55      20

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

<b>Batch ID:</b> 214836 ( 0 )	<b>Instrument:</b> WetChem_HS	<b>Method:</b> TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011
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<b>MBLK</b>	Sample ID: <b>MBLK-214836</b>	Units: <b>mg/L</b>	Analysis Date: <b>15-Jul-2024 14:00</b>							
Client ID:	Run ID: <b>WetChem_HS_471943</b>	SeqNo: <b>8139277</b>	PrepDate: <b>15-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl U 0.50

<b>LCS</b>	Sample ID: <b>LCS-214836</b>	Units: <b>mg/L</b>	Analysis Date: <b>15-Jul-2024 14:00</b>							
Client ID:	Run ID: <b>WetChem_HS_471943</b>	SeqNo: <b>8139276</b>	PrepDate: <b>15-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl 20.16 0.50 20 0 101 85 - 115

<b>MS</b>	Sample ID: <b>HS24070185-06MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>15-Jul-2024 14:00</b>							
Client ID:	Run ID: <b>WetChem_HS_471943</b>	SeqNo: <b>8139274</b>	PrepDate: <b>15-Jul-2024</b> DF: <b>50</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl 2034 25 1000 1028 101 75 - 125

<b>MSD</b>	Sample ID: <b>HS24070185-06MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>15-Jul-2024 14:00</b>							
Client ID:	Run ID: <b>WetChem_HS_471943</b>	SeqNo: <b>8139275</b>	PrepDate: <b>15-Jul-2024</b> DF: <b>50</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl 2010 25 1000 1028 98.2 75 - 125 2034 1.19 20

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

<b>Batch ID:</b> R470721 ( 0 )	<b>Instrument:</b> UV-2450	<b>Method:</b> HEXAVALENT CHROMIUM BY SW7196A
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<b>MBLK</b>	Sample ID: <b>MBLK-R470721</b>	Units: <b>mg/L</b>	Analysis Date: <b>28-Jun-2024 09:58</b>							
Client ID:	Run ID: <b>UV-2450_470721</b>	SeqNo: <b>8105652</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Chromium, Hexavalent U 0.0100

<b>LCS</b>	Sample ID: <b>LCS-R470721</b>	Units: <b>mg/L</b>	Analysis Date: <b>28-Jun-2024 09:58</b>							
Client ID:	Run ID: <b>UV-2450_470721</b>	SeqNo: <b>8105651</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Chromium, Hexavalent 0.253 0.0100 0.25 0 101 80 - 120

<b>MS</b>	Sample ID: <b>HS24061729-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>28-Jun-2024 09:58</b>							
Client ID:	Run ID: <b>UV-2450_470721</b>	SeqNo: <b>8105669</b>	PrepDate: DF: <b>5</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Chromium, Hexavalent 3.69 0.0500 1.25 2.415 102 86 - 117

<b>MS</b>	Sample ID: <b>HS24061553-24MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>28-Jun-2024 09:58</b>							
Client ID:	Run ID: <b>UV-2450_470721</b>	SeqNo: <b>8111629</b>	PrepDate: DF: <b>5</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Chromium, Hexavalent 3.69 0.0500 1.25 2.415 102 86 - 117

<b>MSD</b>	Sample ID: <b>HS24061729-01MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>28-Jun-2024 09:58</b>							
Client ID:	Run ID: <b>UV-2450_470721</b>	SeqNo: <b>8105668</b>	PrepDate: DF: <b>5</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Chromium, Hexavalent 3.63 0.0500 1.25 2.415 97.2 86 - 117 3.69 1.64 15

<b>MSD</b>	Sample ID: <b>HS24061553-24MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>28-Jun-2024 09:58</b>							
Client ID:	Run ID: <b>UV-2450_470721</b>	SeqNo: <b>8111628</b>	PrepDate: DF: <b>5</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Chromium, Hexavalent 3.63 0.0500 1.25 2.415 97.2 86 - 117 3.69 1.64 15

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

<b>Batch ID:</b> R470811 ( 0 )	<b>Instrument:</b> ICS-Integrion	<b>Method:</b> ANIONS BY E300.0, REV 2.1, 1993
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<b>MBLK</b>	Sample ID: <b>MBLK</b>	Units: <b>mg/L</b>	Analysis Date: <b>28-Jun-2024 17:50</b>							
Client ID:	Run ID: <b>ICS-Integrion_470811</b>	SeqNo: <b>8108922</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Fluoride	U	0.100								
Nitrogen, Nitrate (As N)	U	0.100								
Nitrogen, Nitrite (As N)	U	0.100								
Sulfate	U	0.500								

<b>LCS</b>	Sample ID: <b>LCS</b>	Units: <b>mg/L</b>	Analysis Date: <b>28-Jun-2024 17:56</b>							
Client ID:	Run ID: <b>ICS-Integrion_470811</b>	SeqNo: <b>8108923</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Bromide	4.35	0.100	4	0	109	90 - 110				
Chloride	20.74	0.500	20	0	104	90 - 110				
Fluoride	4.362	0.100	4	0	109	90 - 110				
Nitrogen, Nitrate (As N)	4.118	0.100	4	0	103	90 - 110				
Nitrogen, Nitrite (As N)	4.153	0.100	4	0	104	90 - 110				
Sulfate	21.91	0.500	20	0	110	90 - 110				

<b>MS</b>	Sample ID: <b>HS24061748-02MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>28-Jun-2024 18:31</b>							
Client ID:	Run ID: <b>ICS-Integrion_470811</b>	SeqNo: <b>8108928</b>	PrepDate: DF: <b>10</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Bromide	15.61	1.00	20	0	78.0	80 - 120				S
Chloride	270.2	5.00	100	179.1	91.1	80 - 120				
Fluoride	23.13	1.00	20	2.278	104	80 - 120				
Nitrogen, Nitrate (As N)	19.75	1.00	20	0.745	95.0	80 - 120				
Nitrogen, Nitrite (As N)	19.56	1.00	20	0.486	95.3	80 - 120				
Sulfate	435.6	5.00	100	365	70.6	80 - 120				S

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: R470811 ( 0 )		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
<b>MS</b>	Sample ID: <b>HS24061747-01MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>28-Jun-2024 20:00</b>					
Client ID:	Run ID: <b>ICS-Integrion_470811</b>	SeqNo: <b>8108940</b>			PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Bromide	1.361	0.100	2	0	68.0	80 - 120			S	
Chloride	30.45	0.500	10	21.27	91.8	80 - 120				
Fluoride	2.745	0.100	2	0.7388	100	80 - 120				
Nitrogen, Nitrate (As N)	2.044	0.100	2	0.1109	96.6	80 - 120				
Nitrogen, Nitrite (As N)	2.047	0.100	2	0.1322	95.8	80 - 120				
Sulfate	62.89	0.500	10	55.81	70.8	80 - 120			SO	

<b>MSD</b>	Sample ID: <b>HS24061748-02MSD</b>	Units: <b>mg/L</b>			Analysis Date: <b>28-Jun-2024 18:37</b>				
Client ID:	Run ID: <b>ICS-Integrion_470811</b>	SeqNo: <b>8108929</b>			PrepDate:		DF: <b>10</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Bromide	15.93	1.00	20	0	79.6	80 - 120	15.61	2.03	20 S
Chloride	268.9	5.00	100	179.1	89.8	80 - 120	270.2	0.482	20
Fluoride	22.52	1.00	20	2.278	101	80 - 120	23.13	2.66	20
Nitrogen, Nitrate (As N)	19.68	1.00	20	0.745	94.7	80 - 120	19.75	0.35	20
Nitrogen, Nitrite (As N)	19.49	1.00	20	0.486	95.0	80 - 120	19.56	0.318	20
Sulfate	434.8	5.00	100	365	69.8	80 - 120	435.6	0.189	20 S

<b>MSD</b>	Sample ID: <b>HS24061747-01MSD</b>	Units: <b>mg/L</b>			Analysis Date: <b>28-Jun-2024 20:06</b>				
Client ID:	Run ID: <b>ICS-Integrion_470811</b>	SeqNo: <b>8108941</b>			PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Bromide	1.352	0.100	2	0	67.6	80 - 120	1.361	0.671	20 S
Chloride	30.41	0.500	10	21.27	91.4	80 - 120	30.45	0.128	20
Fluoride	2.756	0.100	2	0.7388	101	80 - 120	2.745	0.4	20
Nitrogen, Nitrate (As N)	2.026	0.100	2	0.1109	95.7	80 - 120	2.044	0.875	20
Nitrogen, Nitrite (As N)	2.032	0.100	2	0.1322	95.0	80 - 120	2.047	0.775	20
Sulfate	62.06	0.500	10	55.81	62.4	80 - 120	62.89	1.34	20 SO

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

**Batch ID:** R470918 ( 0 )      **Instrument:** Skalar 02      **Method:** DISSOLVED OXYGEN BY SM4500-O G

<b>DUP</b>	Sample ID: <b>HS24061758-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>01-Jul-2024 11:12</b>							
Client ID: <b>SB-57</b>	Run ID: <b>Skalar 02_470918</b>	SeqNo: <b>8110930</b>	PrepDate:      DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oxygen, Dissolved	U	1.00					0.45		0	20
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The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID: R470959 ( 0 )		Instrument: WetChem_HS		Method: RESIDUAL CHLORINE BY SM4500CL F-2011						
<b>MBLK</b>	Sample ID: <b>MBLK-R470959</b>	Units: <b>mg/L</b>			Analysis Date: <b>01-Jul-2024 14:38</b>					
Client ID:	Run ID: <b>WetChem_HS_470959</b>	SeqNo: <b>8111751</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	U	0.10								
<b>LCS</b>	Sample ID: <b>LCS-R470959</b>	Units: <b>mg/L</b>			Analysis Date: <b>01-Jul-2024 14:38</b>					
Client ID:	Run ID: <b>WetChem_HS_470959</b>	SeqNo: <b>8111750</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	2.7	0.10	3.09	0	87.4	85 - 115				
<b>LCSD</b>	Sample ID: <b>LCSD-R470959</b>	Units: <b>mg/L</b>			Analysis Date: <b>01-Jul-2024 14:38</b>					
Client ID:	Run ID: <b>WetChem_HS_470959</b>	SeqNo: <b>8111749</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	2.7	0.10	3.09	0	87.4	85 - 115	2.7	0	20	
<b>MS</b>	Sample ID: <b>HS24061242-01MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>01-Jul-2024 14:38</b>					
Client ID:	Run ID: <b>WetChem_HS_470959</b>	SeqNo: <b>8111752</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	2.8	0.10	3.09	0.9	61.5	80 - 120			S	

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

<b>Batch ID:</b> R471208 ( 0 )		<b>Instrument:</b> WetChem_HS		<b>Method:</b> PH BY SM4500H+ B-2011						
<b>DUP</b>	Sample ID: <b>HS24061583-01DUP</b>	Units: <b>pH Units</b>			Analysis Date: <b>03-Jul-2024 14:04</b>					
Client ID:	Run ID: <b>WetChem_HS_471208</b>	SeqNo: <b>8122739</b>	PrepDate:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	8	0.100					7.96	0.501	10	
Temp Deg C @pH	21.8	0					21.7	0.46	10	

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

Batch ID:	R471212 ( 0 )	Instrument:	Balance1	Method:	TOTAL SUSPENDED SOLIDS BY SM 2540D-2011					
<b>MBLK</b>	Sample ID: <b>WMBLK-07032024</b>	Units: <b>mg/L</b>		Analysis Date: <b>03-Jul-2024 11:00</b>						
Client ID:	Run ID: <b>Balance1_471212</b>	SeqNo: <b>8122835</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	U	2.50								
<b>LCS</b>	Sample ID: <b>WLCS-07032024</b>	Units: <b>mg/L</b>		Analysis Date: <b>03-Jul-2024 11:00</b>						
Client ID:	Run ID: <b>Balance1_471212</b>	SeqNo: <b>8122834</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	91	2.50	100	0	91.0	85 - 115				
<b>DUP</b>	Sample ID: <b>HS24070026-01 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>03-Jul-2024 11:00</b>						
Client ID:	Run ID: <b>Balance1_471212</b>	SeqNo: <b>8122832</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	16	2.50					16	0	20	
<b>DUP</b>	Sample ID: <b>HS24061747-01 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>03-Jul-2024 11:00</b>						
Client ID:	Run ID: <b>Balance1_471212</b>	SeqNo: <b>8122816</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	63.2	2.50					68.2	7.61	20	

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

**Batch ID:** R471343 ( 0 )      **Instrument:** Balance1      **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

<b>MBLK</b>	Sample ID: <b>WMBLK-07052024</b>	Units: <b>mg/L</b>		Analysis Date: <b>05-Jul-2024 09:30</b>						
Client ID:	Run ID: <b>Balance1_471343</b>	SeqNo: <b>8125733</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	

Total Dissolved Solids (Residue, Filterable)      U      10.0

<b>LCS</b>	Sample ID: <b>WLCS-07052024</b>	Units: <b>mg/L</b>		Analysis Date: <b>05-Jul-2024 09:30</b>						
Client ID:	Run ID: <b>Balance1_471343</b>	SeqNo: <b>8125732</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	

Total Dissolved Solids (Residue, Filterable)      916      10.0      1000      0      91.6      85 - 115

<b>DUP</b>	Sample ID: <b>HS24070009-01 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>05-Jul-2024 09:30</b>						
Client ID:	Run ID: <b>Balance1_471343</b>	SeqNo: <b>8125721</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	

Total Dissolved Solids (Residue, Filterable)      7020      10.0                          6980      0.571      20

<b>DUP</b>	Sample ID: <b>HS24061783-01 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>05-Jul-2024 09:30</b>						
Client ID:	Run ID: <b>Balance1_471343</b>	SeqNo: <b>8125709</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	

Total Dissolved Solids (Residue, Filterable)      748      10.0                          752      0.533      20

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

**Batch ID:** R471576 ( 0 )      **Instrument:** WetChem\_HS      **Method:** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993

<b>MBLK</b>	Sample ID: <b>MBLK-R471576</b>	Units: <b>mg/L</b>				Analysis Date: <b>10-Jul-2024 12:45</b>				
Client ID:		Run ID: <b>WetChem_HS_471576</b>	SeqNo: <b>8130445</b>	PrepDate:	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      U      15.0

<b>LCS</b>	Sample ID: <b>LCS-R471576</b>	Units: <b>mg/L</b>				Analysis Date: <b>10-Jul-2024 12:45</b>				
Client ID:		Run ID: <b>WetChem_HS_471576</b>	SeqNo: <b>8130444</b>	PrepDate:	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      99      15.0      100      0      99.0      85 - 115

<b>MS</b>	Sample ID: <b>HS24070021-02MS</b>	Units: <b>mg/L</b>				Analysis Date: <b>10-Jul-2024 12:45</b>				
Client ID:		Run ID: <b>WetChem_HS_471576</b>	SeqNo: <b>8130447</b>	PrepDate:	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      55      15.0      50      6      98.0      80 - 120

<b>MSD</b>	Sample ID: <b>HS24070021-02MSD</b>	Units: <b>mg/L</b>				Analysis Date: <b>10-Jul-2024 12:45</b>				
Client ID:		Run ID: <b>WetChem_HS_471576</b>	SeqNo: <b>8130446</b>	PrepDate:	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      53      15.0      50      6      94.0      80 - 120      55      3.7      20

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

<b>Batch ID:</b> R471599 ( 0 )	<b>Instrument:</b> Skalar 03	<b>Method:</b> ALKALINITY BY -2011
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<b>MBLK</b>	Sample ID: <b>MBLK-0102024</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 11:52</b>							
Client ID:	Run ID: <b>Skalar 03_471599</b>	SeqNo: <b>8130803</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) U 5.00

<b>LCS</b>	Sample ID: <b>LCS-07102024</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 11:58</b>							
Client ID:	Run ID: <b>Skalar 03_471599</b>	SeqNo: <b>8130804</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 957.5 5.00 1000 0 95.8 85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-07102024</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 12:04</b>							
Client ID:	Run ID: <b>Skalar 03_471599</b>	SeqNo: <b>8130805</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 963.2 5.00 1000 0 96.3 85 - 115 957.5 0.594 20

<b>DUP</b>	Sample ID: <b>HS24070172-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 12:24</b>							
Client ID:	Run ID: <b>Skalar 03_471599</b>	SeqNo: <b>8130809</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 119 5.00 115.4 3.07 20

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

<b>Batch ID:</b> R471691 ( 0 )	<b>Instrument:</b> Balance1	<b>Method:</b> OIL & GREASE (HEM) BY E1664A
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<b>MBLK</b>	Sample ID: <b>WMBLK-07112024</b>	Units: <b>mg/L</b>	Analysis Date: <b>11-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_471691</b>	SeqNo: <b>8132744</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease U 2.00

<b>LCS</b>	Sample ID: <b>LCS-07112024</b>	Units: <b>mg/L</b>	Analysis Date: <b>11-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_471691</b>	SeqNo: <b>8132742</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 44.5 2.00 40 0 111 78 - 114

<b>LCSD</b>	Sample ID: <b>LCSD-07112024</b>	Units: <b>mg/L</b>	Analysis Date: <b>11-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_471691</b>	SeqNo: <b>8132743</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 43.6 2.00 40 0 109 78 - 114 44.5 2.04 18

<b>MS</b>	Sample ID: <b>HS24070091-02MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>11-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_471691</b>	SeqNo: <b>8132732</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 40.5 2.00 40 0.4444 100 78 - 114

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QC BATCH REPORT**

<b>Batch ID:</b> R471974 ( 0 )	<b>Instrument:</b> TOC_04	<b>Method:</b> TOTAL ORGANIC CARBON BY SW9060A
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<b>MBLK</b>	Sample ID: <b>MBLK-07152024</b>	Units: <b>mg/L</b>	Analysis Date: <b>15-Jul-2024 10:34</b>							
Client ID:	Run ID: <b>TOC_04_471974</b>	SeqNo: <b>8139894</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total U 1.00

<b>LCS</b>	Sample ID: <b>LCS-07152024</b>	Units: <b>mg/L</b>	Analysis Date: <b>15-Jul-2024 10:48</b>							
Client ID:	Run ID: <b>TOC_04_471974</b>	SeqNo: <b>8139895</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 9.391 1.00 10 0 93.9 85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-07152024</b>	Units: <b>mg/L</b>	Analysis Date: <b>15-Jul-2024 11:01</b>							
Client ID:	Run ID: <b>TOC_04_471974</b>	SeqNo: <b>8139896</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 9.407 1.00 10 0 94.1 85 - 115 9.391 0.17 20

<b>MS</b>	Sample ID: <b>HS24061750-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>15-Jul-2024 11:39</b>							
Client ID:	Run ID: <b>TOC_04_471974</b>	SeqNo: <b>8139899</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Organic Carbon, Total 12.37 1.00 10 3.901 84.7 80 - 120

The following samples were analyzed in this batch: HS24061758-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24061758

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

<b>Acronym</b>	<b>Description</b>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

<b>Agency</b>	<b>Number</b>	<b>Expire Date</b>
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

Sample Receipt Checklist

Work Order ID: HS24061758

Date/Time Received: 28-Jun-2024 12:50

Client Name: SKA

Received by: Monica Smith

Completed By: <u>/S/ sebastian.lugo</u>	01-Jul-2024 07:51	Reviewed by: <u>/S/ sebastian.lugo</u>	01-Jul-2024 07:53
eSignature	Date/Time	eSignature	Date/Time

Matrices: **W**

Carrier name: **Client**

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes  No  Not Present
- Chain of custody present? Yes  No  1 Page(s)
- Chain of custody signed when relinquished and received? Yes  No  COC IDs:314203
- Samplers name present on COC? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container/Temp Blank temperature in compliance? Yes  No

Temperature(s)/Thermometer(s):	0.2C/0.6C UC/C	IR31
Cooler(s)/Kit(s):	Green	
Date/Time sample(s) sent to storage:	07/01/2024 0751	

- Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted
- Water - pH acceptable upon receipt? Yes  No  N/A
- pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



Cincinnati, OH  
+1 513 733 5336

Fort Collins, CO  
+1 970 490 1511

Everett, WA  
+1 425 356 2600

Holland, MI  
+1 616 399 6070

# Chain of Custody Form

Page 1 of 1

COC ID: 314203

HS24061758

SKA Consulting, L.P.  
Doty Wastewater Permit

WV

ALS Project Manager:



Customer Information		Project Information		
Purchase Order	5019-0003	Project Name	Doty Wastewater Permit	A 624_Wdump (VOA 624) 7 day HT
Work Order		Project Number		B 625_Wdump (SVOA 625/Pest/PCB)
Company Name	SKA Consulting, L.P.	Bill To Company	SKA Consulting, L.P.	C 200.8 Low (Special List)
Send Report To	Mike Schultz	Invoice Attn	Rebecca Fonseca - AP	D 300_W (Cl, NO3, F, SO4, Br, ALK, Res-cl/TDS, pH)
Address	1888 Stebbins Drive Suite 100	Address	1888 Stebbins Drive Suite 100	E BOD 5210B (BOD/CBOD/Diss Oxy/OR+6/Cr+3)
				F COD (COD/TON/T-Phos/TOC)
City/State/Zip	Houston, TX 77043	City/State/Zip	Houston TX 77043	G O&G_1664_W_HS (O&G)
Phone	(713) 266-6056	Phone	(713) 266-6056	H TSS_W 2540D (TSS)
Fax	(713) 266-0996	Fax	(713) 266-0996	I SUB_Available Cyanide (ALS Holland)
e-Mail Address	mike.schultz@skaconsulting.com	e-Mail Address	rebecca.fonseca@skaconsulting.com	J Sub_MercuryLow (ALS Holland)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-57	6-28-24	1200	W		25	X	X	X	X	X	X	X	X	X	X	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

PP

(MERCURY LOW NO DUP  
NO FIELD)

Sampler(s) Please Print & Sign <b>RYAN RUTAVILAVAN</b>		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:		
Reinquished by: <i>Ryan Rutavilavan</i>		Date: 6-28-24	Time: 12:50	Received by:		Notes: SKA Doty Wastewater Permit				
Reinquished by:		Date: 6-28-24	Time: 12:50	Received by (Laboratory):		Cooler ID: Green	Cooler Temp: 0.2	QC Package: (Check One Box Below)		
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		cft-1	ELAS3	<input checked="" type="checkbox"/> Level II Std. OK	<input type="checkbox"/> TRRP Checklist	
Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other 8-4°C 9-5035										

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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**ALS**

10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

**CUSTODY SEAL**

Date: 6-28-24 Time: 1200  
Name: Ryan Rutanilawan  
Company: SKA

Seal Broken By:

Date:



right solutions.  
right partner.

July 17, 2024

Bernadette Fini  
ALS Environmental  
10450 Stancliff Rd  
Suite 210  
Houston, TX 77099

Work Order: **HN2403750**

Re: **HS24061758**

Dear Bernadette,  
Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me:  
ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

**Chelsey Cook**  
/S/ CHELSEY COOK  
**Project Manager**



# Narrative Documents

**Client:** ALS Environmental  
**Project:** HS24061758  
**Sample Matrix:** Water

**Work Order:** HN2403750  
**Date Received:** 02-Jul-2024

### CASE NARRATIVE

**Sample Receipt:**

One water sample was received for analysis at ALS Environmental on 02-Jul-2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

**Inorganics:**

No significant anomalies were noted with this analysis.

# SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting limits.

For a full listing of sample results, continue to the Sample Results section of this Report.



**CLIENT ID: SB-57** **Lab ID: HN2403750-001**

Analyte	Results	Flag	MDL	MRL	Units	Method
Mercury	4.84		0.200	0.500	ng/L	EPA 1631E



## Sample Receipt Information

# SAMPLE SUMMARY



**Client:** ALS Environmental  
**Project:** HS24061758  
**Workorder:** HN2403750

<b>Laboratory Sample ID</b>	<b>Client Sample ID</b>	<b>Sample Matrix</b>	<b>Collection Date</b>	<b>Date Received</b>
HN2403750-001	SB-57	WATER	06/28/24 12:00	07/02/24 09:30



Environmental Division  
Holland  
Work Order Reference  
**HN2403750**

10450 Stancliff Rd, Ste 210  
Houston, TX 77099  
**T:** +1 281 530 5656  
**F:** +1 281 530 5887  
**www.alsglobal.com**

## Subcontract



Telephone : +1 616 399 6070

**SAMPLING STATE:** Texas

**COC ID:** 26188

**SUBCONTRACT TO:**

ALS Group USA, Corp.  
3352 - 128th Ave  
Holland, MI 494249263

**Phone:** +1 616 399 6070

**CUSTOMER INFORMATION:**

**Company:** ALS Houston  
**Contact:** Bernadette A. Fini  
**Address:** 10450 Stancliff Rd, Ste 210  
**Phone:** +1 281 530 5656  
**Email:** Bernadette.fini@alsglobal.com  
**Alternate Contact:** Jumoke M. Lawal  
**Email:** jumoke.lawal@alsglobal.com

**INVOICE INFORMATION:**

**Company:** ALS Houston  
**Contact:** Accounts Payable  
**Address:** 10450 Stancliff Rd, Ste 210  
**Phone:** +1 281 530 5656  
**Reference:** HS24061758  
**TSR:** Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
1. HS24061758-01	SB-57	Water	28 Jun 2024 12:00
	SUB_Available Cyanide		15 Jul 2024
	Sub_MercuryLow		15 Jul 2024

**Comments:** Please analyze for the analysis listed above.  
Send report to the emails shown above.

**QC Level:** STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By:

AM

Date/Time:

7/1/24 18:00

Received By:

Jumoke Butor

Date/Time:

7/2/24 930

Cooler ID(s):

IB3 5057

Temperature(s):

4.9

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# ALS Holland Sample Receiving Checklist

Received by:

[Signature]

Date/Time:

7-2-24 9:30

Carrier Name:

Feder

Shipping container/cooler in good condition?

Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No /  Not Present

Custody seals intact on sample bottles?

Yes / No /  Not Present

Chain of Custody present?

Yes / No

COC signed when relinquished and received?

Yes / No

COC agrees with sample labels?

Yes / No

Samples in proper container/bottle?

Yes / No

Sample containers intact?

Yes / No

Sufficient sample volume for indicated test?

Yes / No

All samples received within holding time?

Yes / No

Container/Temp Blank temperature in compliance?

Yes / No

Temperature(s) (°C):

4.9/5.9

Thermometer(s):

215

Sample(s) received on ice?

Yes / No

Matrix/Matrices:

water

Cooler(s)/Kit(s):

\_\_\_\_\_

Date/Time sample(s) sent to storage:

7-2-24

Water – VOA vials have zero headspace?

Yes / No /  No Vials

Water – pH acceptable upon receipt?

Yes / No / N/A

pH strip lot #: \_\_\_\_\_ < 2 \_\_\_\_\_ > 12  Other \_\_\_\_\_

pH adjusted (note adjustments below)?

Yes /  No / N/A

pH adjusted by:

\_\_\_\_\_

Login Notes:



# Miscellaneous Forms

## REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
V	The Continuing Calibration Verification was outside of control criteria
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

### Holland Laboratory Certifications<sup>1</sup>

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	1/1/2024	12/31/2024
Colorado	UST		6/21/2024	6/30/2025
Connecticut	Drinking Water (Secondary)	PH-0155	1/23/2023	12/31/2024
Florida	NELAP (Primary)	E871106	7/1/2024	6/30/2025
Illinois	NELAP (Secondary)	200076	12/14/2023	12/31/2024
Indiana	Drinking Water (Secondary)	C-MI-08	4/4/2024	9/4/2026
Iowa	State Specific	403	9/18/2023	9/1/2025
Kansas	NELAP (Secondary)	E-10411	7/26/2023	7/31/2024
Kentucky	Waste Water	KY98004	12/5/2023	12/31/2024
Kentucky	UST	120474	6/24/24	6/30/2025
Michigan	Drinking Water (Primary)	0022	12/19/2023	9/4/2026
Minnesota	NELAP (Secondary)	026-999-449	12/29/2023	12/31/2024
New Jersey	NELAP (Secondary)	MI015	7/1/2024	6/30/2025
New York	Drinking Water (Secondary)	12128	3/29/2024	4/1/2025
North Dakota	State Specific	R-192	9/12/2023	6/30/2024
Ohio	Drinking Water (Secondary)	87783	7/1/2024	6/30/2025
Pennsylvania	NELAP (Secondary)	68-03827	6/14/2024	7/31/2025
Texas	NELAP (Secondary)	T104704494	2/1/2024	1/31/2025
USDA	Domestic CA	Soil-MI-007	8/21/2023	2/18/2025
USDA	Soil Import	P330-19-00039	3/3/2023	3/3/2026
West Virginia	State Specific	355	6/24/2024	8/31/2025
Wisconsin	State Specific	399084510	8/11/2023	8/31/2024

<sup>1</sup> - Scope available upon request

# ANALYST SUMMARY



**Client:** ALS Environmental  
**Project:** HS24061758

**Work Order:** HN2403750

---

**Sample Name:** SB-57  
**Laboratory Code:** HN2403750-001  
**Sample Matrix:** WATER

**Date Collected:** 06/28/24  
**Date Received:** 07/02/24

---

<b>Analysis Method</b>	<b>Preparation Lot</b>	<b>Prepared By</b>	<b>Analysis Lot</b>	<b>Analyzed By</b>
EPA 1631E	1537572	Amber Luke	2399858	Amber Luke
OIA 1677	1532877	Mike Burkall	2381936	Mike Burkall

---



# Sample Results



# Metals

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061758/  
**Sample Matrix:** WATER  
**Sample Name:** SB-57  
**Laboratory Code:** HN2403750-001

**Work Order:** HN2403750  
**Date Collected:** 06/28/24 12:00  
**Date Received:** 07/02/24 09:30

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<b>4.84</b>	ng/L	0.500	1	07/15/24 18:57	07/10/24 16:56	



# General Chemistry

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061758/  
**Sample Matrix:** WATER  
**Sample Name:** SB-57  
**Laboratory Code:** HN2403750-001

**Work Order:** HN2403750  
**Date Collected:** 06/28/24 12:00  
**Date Received:** 07/02/24 09:30

## General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	07/08/24 18:29	07/08/24 10:27	



# QC Summary Forms



# Metals

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061758/  
**Sample Matrix:** WATER

**Work Order:** HN2403750  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Laboratory Code:** QC-1537572-001

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/15/24 17:24	07/10/24 16:57	

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061758/  
**Sample Matrix:** WATER  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1537572-002

**Work Order:** HN2403750  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/15/24 18:18	07/10/24 16:57	

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061758/  
**Sample Matrix:** WATER  
  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1537572-003

**Work Order:** HN2403750  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/15/24 19:13	07/10/24 16:57	

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061758/  
**Sample Matrix:** WATER

**Work Order:** HN2403750  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Laboratory Code:** QC-1537572-004

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/15/24 20:07	07/10/24 16:57	

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061758  
**Sample Matrix:** WATER

**Work Order:** HN2403750  
**Date Collected:** 06/27/2024  
**Date Received:** 06/28/2024  
**Date Analyzed:** 07/15/2024  
**Date Extracted:** 07/10/2024

## Duplicate Matrix Spike Summary Metals

**Sample Name:** Batch QC  
**Laboratory Code:** Batch QC  
**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:** ng/L  
**Analysis Lab Lot:** 2399858

**Matrix Spike**  
QC-1537572-008

**Duplicate Matrix Spike**  
QC-1537572-009

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
Mercury	1.34	6.29	5	99.0	6.30	5	99.2	71-125	0.159	24

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061758  
**Sample Matrix:** WATER

**Work Order:** HN2403750  
**Date Collected:** 07/02/2024  
**Date Received:** 07/02/2024  
**Date Analyzed:** 07/15/2024  
**Date Extracted:** 07/10/2024

## Duplicate Matrix Spike Summary Metals

**Sample Name:** Batch QC  
**Laboratory Code:** Batch QC  
**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:** ng/L  
**Analysis Lab Lot:** 2399858

**Matrix Spike**  
QC-1537572-020

**Duplicate Matrix Spike**  
QC-1537572-021

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
Mercury	2.25	5.95	4	92.5	5.90	4	91.2	71-125	0.844	24

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061758  
**Sample Matrix:** WATER

**Work Order:**HN2403750  
**Date Analyzed:**07/15/2024  
**Date Extracted:**07/10/2024

## Laboratory Control Sample Summary

**Metals**  
**Mercury**

**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:**ng/L  
**Analysis Lab Lot:**2399858

<b>Sample Name</b>	<b>Laboratory Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Laboratory Control Sample	QC-1537572-005	5.69	5	114	77-123

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061758  
**Sample Matrix:** WATER

**Work Order:**HN2403750  
**Date Analyzed:**07/15/2024  
**Date Extracted:**07/10/2024

## Laboratory Control Sample Summary

**Metals**  
**Mercury**

**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:**ng/L  
**Analysis Lab Lot:**2399858

<b>Sample Name</b>	<b>Laboratory Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Laboratory Control Sample	QC-1537572-006	5.46	5	109	77-123



# General Chemistry

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24061758/  
**Sample Matrix:** WATER  
  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1532877-001

**Work Order:** HN2403750  
**Date Collected:** NA  
**Date Received:** NA

## General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	07/08/24 18:30	07/08/24 10:28	

## QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061758  
**Sample Matrix:** WATER

**Work Order:** HN2403750  
**Date Collected:** 07/01/2024  
**Date Received:** 07/02/2024  
**Date Analyzed:** 07/08/2024  
**Date Extracted:** 07/08/2024

### Duplicate Matrix Spike Summary General Chemistry Parameters

**Sample Name:** Batch QC  
**Laboratory Code:** Batch QC  
**Analysis Method:** OIA 1677  
**Prep Method:** Method

**Units:** µg/L  
**Analysis Lab Lot:** 2381936

**Matrix Spike**  
 QC-1532877-004

**Duplicate Matrix Spike**  
 QC-1532877-005

Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Available Cyanide	0.0645	91.4 S	50	53.8 S	96.2 S	50	63.4 S	82-130	5.13	11

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24061758  
**Sample Matrix:** WATER

**Work Order:** HN2403750  
**Date Analyzed:** 07/08/2024  
**Date Extracted:** 07/08/2024

## Laboratory Control Sample Summary General Chemistry Parameters Available Cyanide

**Analysis Method:** OIA 1677  
**Prep Method:** Method

**Units:** µg/L  
**Analysis Lab Lot:** 2381936

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1532877-002	41.8	50	83.7	82-132



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10450 Stancliff Rd. Suite 210  
Houston, TX 77099  
T: +1 281 530 5656  
F: +1 281 530 5887

July 26, 2024

Mike Schultz  
SKA Consulting, L.P.  
1888 Stebbins Drive  
Suite 100  
Houston, TX 77043

Work Order: **HS24070259**

Laboratory Results for: **Doty Wastewater Permit**

Dear Mike Schultz,

ALS Environmental received 1 sample(s) on Jul 05, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Bernadette A. Fini  
Project Manager

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24070259

**SAMPLE SUMMARY**

---

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24070259-01	SB-57	Water		05-Jul-2024 10:30	05-Jul-2024 11:55	<input type="checkbox"/>

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24070259

**CASE NARRATIVE**

---

**Work Order Comments**

- Sample received outside method holding time for pH, dissolved oxygen and residual chlorine. These are an immediate test. Sample results are flagged with an "H" qualifier.  
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.
- The analyses for low level mercury and available cyanide were subcontracted to ALS Environmental in Holland, MI. Final Report attached.

---

**Work Order Comments**

- Chlorine and Oxygen dissolved are immediate tests. Samples are flagged with "H" qualifier.

---

**ECD Organics by Method E608****Batch ID: 214532****Sample ID: MBLK-214532**

- Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

---

**GCMS Semivolatiles by Method E625****Batch ID: 214559****Sample ID: LCS-214559**

- LCS and LCSD were not spiked with any AP91 compounds  
N-Nitroso-di-n-butylamine  
N-Nitrosodiethylamine  
N-Nitrosodimethylamine

**Sample ID: LCS1-214559**

- LCS and LCSD were spiked 5 ppm surr instead of 100 ppm.

**Sample ID: LCSD-214559**

- The Bezidine recovery was below the upper control limit for LCS and LCSD All sample results in the batch were non-detect. No qualification is required for this analyte:
- The RPD between the LCS and LCSD was outside of the control limit.

---

**GCMS Volatiles by Method E624****Batch ID: R471581****Sample ID: SB-57 (HS24070259-01)**

- Sample was analyzed outside of the holding time for Acrolein. Sample results should be considered estimated.

**Sample ID: HS24070194-01MS**

- MS/MSD was performed on an unrelated sample.

---

**Metals by Method Calculation****Batch ID: R472495**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24070259

**CASE NARRATIVE**

---

**Metals by Method E200.8**

**Batch ID: 214951**

**Sample ID: HS24070249-01MS**

- MS and MSD are for an unrelated sample

**Sample ID: HS24070249-02MS**

- MS and MSD are for an unrelated sample

---

**WetChemistry by Method M2540C**

**Batch ID: R471601**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method SM4500H+ B**

**Batch ID: R471818**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method SW9060**

**Batch ID: R472176**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method E1664A**

**Batch ID: R472356**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method E410.4**

**Batch ID: R472273**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method SM4500CL F**

**Batch ID: R472131**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method M2540D**

**Batch ID: R471720**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method SM2320B**

**Batch ID: R471599**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24070259

---

**CASE NARRATIVE**

---

**WetChemistry by Method M4500 NH3 D**

**Batch ID: 215031,R472497**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method M4500-O G**

**Batch ID: R471354**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method E300**

**Batch ID: R471379**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SW7196**

**Batch ID: R471356**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SM4500 NH3-B-F**

**Batch ID: 214876**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method E365.3**

**Batch ID: 214777**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SM5210 B**

**Batch ID: 214560,214561**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 05-Jul-2024 10:30

**ANALYTICAL REPORT**  
 WorkOrder:HS24070259  
 Lab ID:HS24070259-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>VOLATILES</b>			<b>Method:E624</b>				Analyst: TS
1,1,1-Trichloroethane	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
1,1,2,2-Tetrachloroethane	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
1,1,2-Trichloroethane	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
1,1-Dichloroethane	U		0.400	5.00	ug/L	1	09-Jul-2024 15:20
1,1-Dichloroethene	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
1,2-Dibromoethane	U		0.400	5.00	ug/L	1	09-Jul-2024 15:20
1,2-Dichlorobenzene	U		0.600	5.00	ug/L	1	09-Jul-2024 15:20
1,2-Dichloroethane	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
1,2-Dichloropropane	U		0.700	5.00	ug/L	1	09-Jul-2024 15:20
1,3-Dichlorobenzene	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
1,4-Dichlorobenzene	U		0.600	5.00	ug/L	1	09-Jul-2024 15:20
2-Butanone	U		1.00	10.0	ug/L	1	09-Jul-2024 15:20
2-Chloroethyl vinyl ether	U		1.30	10.0	ug/L	1	09-Jul-2024 15:20
Acrolein	U	H	4.00	20.0	ug/L	1	09-Jul-2024 15:20
Acrylonitrile	U		4.00	10.0	ug/L	1	09-Jul-2024 15:20
Benzene	U		0.600	5.00	ug/L	1	09-Jul-2024 15:20
Bromodichloromethane	U		0.600	5.00	ug/L	1	09-Jul-2024 15:20
Bromoform	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
Bromomethane	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
Carbon tetrachloride	U		0.600	5.00	ug/L	1	09-Jul-2024 15:20
Chlorobenzene	U		0.400	5.00	ug/L	1	09-Jul-2024 15:20
Chloroethane	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
Chloroform	U		0.600	5.00	ug/L	1	09-Jul-2024 15:20
Chloromethane	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
cis-1,3-Dichloropropene	U		0.600	5.00	ug/L	1	09-Jul-2024 15:20
Dibromochloromethane	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
Ethylbenzene	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
m,p-Xylene	U		0.600	10.0	ug/L	1	09-Jul-2024 15:20
Methylene chloride	U		1.00	10.0	ug/L	1	09-Jul-2024 15:20
<b>Naphthalene</b>	<b>3.89</b>	<b>J</b>	<b>0.700</b>	<b>5.00</b>	<b>ug/L</b>	<b>1</b>	<b>09-Jul-2024 15:20</b>
o-Xylene	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
Tetrachloroethene	U		0.600	5.00	ug/L	1	09-Jul-2024 15:20
Toluene	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
trans-1,2-Dichloroethene	U		0.400	5.00	ug/L	1	09-Jul-2024 15:20
trans-1,3-Dichloropropene	U		0.600	5.00	ug/L	1	09-Jul-2024 15:20
Trichloroethene	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
Vinyl chloride	U		0.400	2.00	ug/L	1	09-Jul-2024 15:20
Xylenes, Total	U		0.500	5.00	ug/L	1	09-Jul-2024 15:20
1,3-Dichloropropene, Total	U		0.600	5.00	ug/L	1	09-Jul-2024 15:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
Project: Doty Wastewater Permit  
Sample ID: SB-57  
Collection Date: 05-Jul-2024 10:30

**ANALYTICAL REPORT**  
WorkOrder:HS24070259  
Lab ID:HS24070259-01  
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>VOLATILES</b>							Analyst: TS
	<b>Method:E624</b>						
Surr: 1,2-Dichloroethane-d4	105			70-126	%REC	1	09-Jul-2024 15:20
Surr: 4-Bromofluorobenzene	117			82-124	%REC	1	09-Jul-2024 15:20
Surr: Dibromofluoromethane	108			77-123	%REC	1	09-Jul-2024 15:20
Surr: Toluene-d8	116			82-127	%REC	1	09-Jul-2024 15:20

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**ANALYTICAL REPORT**  
 WorkOrder:HS24070259  
 Lab ID:HS24070259-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>SEMIVOLATILE</b>		<b>Method:E625</b>			Prep:E625 / 05-Jul-2024		Analyst: GEY
1,2,4,5-Tetrachlorobenzene	U		0.600	5.00	ug/L	1	11-Jul-2024 20:53
1,2,4-Trichlorobenzene	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
1,2-Diphenylhydrazine	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
2,4,5-Trichlorophenol	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
2,4,6-Trichlorophenol	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
2,4-Dichlorophenol	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
2,4-Dimethylphenol	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
2,4-Dinitrophenol	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
2,4-Dinitrotoluene	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
2,6-Dinitrotoluene	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
2-Chloronaphthalene	U		0.600	5.00	ug/L	1	11-Jul-2024 20:53
2-Chlorophenol	U		1.00	5.00	ug/L	1	11-Jul-2024 20:53
2-Methylphenol	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
2-Nitrophenol	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
3&4-Methylphenol	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
3,3'-Dichlorobenzidine	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
4,6-Dinitro-2-methylphenol	U		0.900	5.00	ug/L	1	11-Jul-2024 20:53
4-Bromophenyl phenyl ether	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
4-Chloro-3-methylphenol	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
4-Chlorophenyl phenyl ether	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
4-Nitrophenol	U		0.600	5.00	ug/L	1	11-Jul-2024 20:53
Acenaphthene	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
Acenaphthylene	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
Anthracene	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
Benz(a)anthracene	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
Benzidine	U		5.00	5.00	ug/L	1	11-Jul-2024 20:53
Benzo(a)pyrene	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
Benzo(b)fluoranthene	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
Benzo(g,h,i)perylene	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
Benzo(k)fluoranthene	U		0.700	5.00	ug/L	1	11-Jul-2024 20:53
Bis(2-chloroethoxy)methane	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
Bis(2-chloroethyl)ether	U		0.700	5.00	ug/L	1	11-Jul-2024 20:53
Bis(2-chloroisopropyl)ether	U		0.800	5.00	ug/L	1	11-Jul-2024 20:53
Bis(2-ethylhexyl)phthalate	U		0.800	5.00	ug/L	1	11-Jul-2024 20:53
Butyl benzyl phthalate	U		0.600	5.00	ug/L	1	11-Jul-2024 20:53
Chrysene	U		0.800	5.00	ug/L	1	11-Jul-2024 20:53
Dibenz(a,h)anthracene	U		0.600	5.00	ug/L	1	11-Jul-2024 20:53
Diethyl phthalate	U		0.700	5.00	ug/L	1	11-Jul-2024 20:53
Dimethyl phthalate	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53

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Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 05-Jul-2024 10:30

**ANALYTICAL REPORT**  
 WorkOrder:HS24070259  
 Lab ID:HS24070259-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>SEMIVOLATILE</b>		<b>Method:E625</b>		Prep:E625 / 05-Jul-2024		Analyst: GEY	
Di-n-butyl phthalate	U		0.800	5.00	ug/L	1	11-Jul-2024 20:53
Di-n-octyl phthalate	U		2.00	5.00	ug/L	1	11-Jul-2024 20:53
Fluoranthene	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
Fluorene	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
Hexachlorobenzene	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
Hexachlorobutadiene	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
Hexachlorocyclopentadiene	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
Hexachloroethane	U		0.800	5.00	ug/L	1	11-Jul-2024 20:53
Indeno(1,2,3-cd)pyrene	U		0.600	5.00	ug/L	1	11-Jul-2024 20:53
Isophorone	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
Nitrobenzene	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
N-Nitrosodiethylamine	U		0.600	5.00	ug/L	1	11-Jul-2024 20:53
N-Nitrosodimethylamine	U		0.600	5.00	ug/L	1	11-Jul-2024 20:53
N-Nitroso-di-n-butylamine	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
N-Nitrosodi-n-propylamine	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
N-Nitrosodiphenylamine	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
Nonylphenol	U	n	5.00	5.00	ug/L	1	11-Jul-2024 20:53
Pentachlorobenzene	U		0.500	5.00	ug/L	1	11-Jul-2024 20:53
Pentachlorophenol	U		0.800	5.00	ug/L	1	11-Jul-2024 20:53
Phenanthrene	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
Phenol	U		0.400	5.00	ug/L	1	11-Jul-2024 20:53
Pyrene	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
Pyridine	U		0.300	5.00	ug/L	1	11-Jul-2024 20:53
<i>Surr: 2,4,6-Tribromophenol</i>	<i>90.3</i>			<i>42-124</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 20:53</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>72.9</i>			<i>48-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 20:53</i>
<i>Surr: 2-Fluorophenol</i>	<i>59.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 20:53</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>85.0</i>			<i>51-135</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 20:53</i>
<i>Surr: Nitrobenzene-d5</i>	<i>64.7</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 20:53</i>
<i>Surr: Phenol-d6</i>	<i>79.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Jul-2024 20:53</i>

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Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 05-Jul-2024 10:30

**ANALYTICAL REPORT**  
 WorkOrder:HS24070259  
 Lab ID:HS24070259-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>CHLORINATED PEST/PCBS BY E608</b>		<b>Method:E608</b>			Prep:E608 / 05-Jul-2024		Analyst: E.H.
4,4'-DDD	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:40
4,4'-DDE	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:40
4,4'-DDT	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:40
Aldrin	U		0.00500	0.0500	ug/L	1	16-Jul-2024 08:40
alpha-BHC	U		0.0100	0.0500	ug/L	1	16-Jul-2024 08:40
Aroclor 1016	U		0.200	0.500	ug/L	1	12-Jul-2024 23:06
Aroclor 1221	U		0.200	0.500	ug/L	1	12-Jul-2024 23:06
Aroclor 1232	U		0.200	0.500	ug/L	1	12-Jul-2024 23:06
Aroclor 1242	U		0.200	0.500	ug/L	1	12-Jul-2024 23:06
Aroclor 1248	U		0.200	0.500	ug/L	1	12-Jul-2024 23:06
Aroclor 1254	U		0.200	0.500	ug/L	1	12-Jul-2024 23:06
Aroclor 1260	U		0.200	0.500	ug/L	1	12-Jul-2024 23:06
beta-BHC	U		0.0100	0.0500	ug/L	1	16-Jul-2024 08:40
Chlordane	U		0.100	0.500	ug/L	1	16-Jul-2024 08:40
delta-BHC	U		0.0100	0.0500	ug/L	1	16-Jul-2024 08:40
Dieldrin	U		0.00500	0.100	ug/L	1	16-Jul-2024 08:40
Endosulfan I	U		0.0100	0.0500	ug/L	1	16-Jul-2024 08:40
Endosulfan II	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:40
Endosulfan sulfate	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:40
Endrin	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:40
Endrin aldehyde	U		0.0100	0.100	ug/L	1	16-Jul-2024 08:40
gamma-BHC	U		0.00500	0.0500	ug/L	1	16-Jul-2024 08:40
Heptachlor	U		0.00500	0.0500	ug/L	1	16-Jul-2024 08:40
Heptachlor epoxide	U		0.00500	0.0500	ug/L	1	16-Jul-2024 08:40
Toxaphene	U		0.130	0.500	ug/L	1	16-Jul-2024 08:40
Surr: Decachlorobiphenyl	91.6			61-154	%REC	1	12-Jul-2024 23:06
Surr: Decachlorobiphenyl	108			61-154	%REC	1	16-Jul-2024 08:40
Surr: Tetrachlor-m-xylene	69.1			60-144	%REC	1	12-Jul-2024 23:06
Surr: Tetrachlor-m-xylene	75.8			60-144	%REC	1	16-Jul-2024 08:40
<b>TRIVALENT CHROMIUM</b>		<b>Method:Calculation</b>					Analyst: MSC
Chromium, Trivalent	U	n	0.0100	0.0100	mg/L	1	23-Jul-2024 09:26

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**ANALYTICAL REPORT**  
 WorkOrder:HS24070259  
 Lab ID:HS24070259-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>TOTAL METALS BY E200.8, REV 5.4, 1994</b>		<b>Method:E200.8</b>		Prep:E200.8 / 17-Jul-2024		Analyst: JC	
Aluminum	16.6		0.800	10.0	ug/l	1	18-Jul-2024 21:53
Antimony		U	0.0530	5.00	ug/l	1	18-Jul-2024 21:53
Arsenic	0.329	J	0.250	2.00	ug/l	1	18-Jul-2024 21:53
Barium	1,660		0.0840	4.00	ug/l	1	18-Jul-2024 21:53
Beryllium		U	0.0910	5.00	ug/l	1	18-Jul-2024 21:53
Cadmium		U	0.0770	2.00	ug/l	1	18-Jul-2024 21:53
Chromium	0.978	J	0.251	4.00	ug/l	1	18-Jul-2024 21:53
Copper	0.354	J	0.170	2.00	ug/l	1	18-Jul-2024 21:53
Iron	21,000		50.0	200	ug/l	1	18-Jul-2024 21:53
Lead	0.389	J	0.120	2.00	ug/l	1	18-Jul-2024 21:53
Magnesium	53,100		7.80	500	ug/l	1	18-Jul-2024 21:53
Manganese	330		0.0660	5.00	ug/l	1	18-Jul-2024 21:53
Molybdenum		U	0.490	5.00	ug/l	1	18-Jul-2024 21:53
Nickel	0.456	J	0.110	2.00	ug/l	1	18-Jul-2024 21:53
Selenium		U	0.860	2.00	ug/l	1	18-Jul-2024 21:53
Silver		U	0.0440	2.00	ug/l	1	18-Jul-2024 21:53
Thallium		U	0.250	2.00	ug/l	1	18-Jul-2024 21:53
Zinc	5.33		1.00	4.00	ug/l	1	18-Jul-2024 21:53
<b>OIL &amp; GREASE (HEM) BY E1664A</b>		<b>Method:E1664A</b>				Analyst: MC	
Oil and Grease	1.82	J	0.610	2.00	mg/L	1	19-Jul-2024 07:00
<b>ANIONS BY E300.0, REV 2.1, 1993</b>		<b>Method:E300</b>				Analyst: JAC	
Bromide	0.654		0.0300	0.100	mg/L	1	05-Jul-2024 17:24
Chloride	43.3		0.200	0.500	mg/L	1	05-Jul-2024 17:24
Fluoride	0.373		0.0500	0.100	mg/L	1	05-Jul-2024 17:24
Nitrogen, Nitrate (As N)		U	0.0300	0.100	mg/L	1	05-Jul-2024 17:24
Sulfate		U	0.200	0.500	mg/L	1	05-Jul-2024 17:24
<b>PHOSPHORUS BY E365.3-1978</b>		<b>Method:E365.3</b>		Prep:E365.3 / 12-Jul-2024		Analyst: CD	
Phosphorus, Total (As P)		U	0.0200	0.0500	mg/L	1	12-Jul-2024 14:52
<b>CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993</b>		<b>Method:E410.4</b>				Analyst: TH	
Chemical Oxygen Demand	85.0		5.00	15.0	mg/L	1	18-Jul-2024 15:30
<b>TOTAL DISSOLVED SOLIDS BY SM2540C-2011</b>		<b>Method:M2540C</b>				Analyst: MH	
Total Dissolved Solids (Residue, Filterable)	1,180		5.00	10.0	mg/L	1	10-Jul-2024 08:30
<b>TOTAL SUSPENDED SOLIDS BY SM2540D-2011</b>		<b>Method:M2540D</b>				Analyst: MH	
Suspended Solids (Residue, Non-Filterable)	53.0		0.930	2.50	mg/L	1	11-Jul-2024 10:30
<b>ORGANIC NITROGEN BY SM4500-NH3D MINUS NH3F-2011</b>		<b>Method:M4500 NH3 D</b>				Analyst: JHD	
Nitrogen, Organic		U	0.50	0.50	mg/L	1	23-Jul-2024 09:37

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Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 05-Jul-2024 10:30

**ANALYTICAL REPORT**  
 WorkOrder:HS24070259  
 Lab ID:HS24070259-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011</b>		Method:M4500 NH3 D		Prep:M4500-N C / 19-Jul-2024		Analyst: HB	
Nitrogen, Total Kjeldahl	3.9		0.10	0.50	mg/L	1	19-Jul-2024 14:30
<b>DISSOLVED OXYGEN BY SM4500-O G</b>		Method:M4500-O G				Analyst: AR	
Oxygen, Dissolved	U	H	1.00	1.00	mg/L	1	05-Jul-2024 17:57
<b>ALKALINITY BY -2011</b>		Method:SM2320B				Analyst: AR	
Alkalinity, Total (As CaCO3)	1,200		2.50	5.00	mg/L	1	10-Jul-2024 13:32
<b>AMMONIA AS N BY SM4500 NH3-B-F-2011</b>		Method:SM4500 NH3-B-F		Prep:M4500-NH3 B / 15-Jul-2024		Analyst: SG	
Nitrogen, Ammonia (as N)	4.6		0.12	0.25	mg/L	1	16-Jul-2024 14:41
<b>RESIDUAL CHLORINE BY SM4500CL F-2011</b>		Method:SM4500CL F				Analyst: MC	
Chlorine	U	H	0.10	0.10	mg/L	1	17-Jul-2024 14:21
<b>PH BY SM4500H+ B-2011</b>		Method:SM4500H+ B				Analyst: MR	
pH	6.73	H	0.100	0.100	pH Units	1	12-Jul-2024 14:22
Temp Deg C @pH	19.6	H	0	0	°C	1	12-Jul-2024 14:22
<b>BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011</b>		Method:SM5210 B		Prep:SM5210 B / 05-Jul-2024		Analyst: AR	
Biochemical Oxygen Demand	U		2.00	2.00	mg/L	1	10-Jul-2024 13:00
<b>CBOD BY SM5210B-2011</b>		Method:SM5210 B		Prep:SM5210 B / 05-Jul-2024		Analyst: AR	
Carbonaceous Biochemical Oxygen Demand	U		2.00	2.00	mg/L	1	10-Jul-2024 12:54
<b>HEXAVALENT CHROMIUM BY SW7196A</b>		Method:SW7196				Analyst: HB	
Chromium, Hexavalent	0.0120		0.00600	0.0100	mg/L	1	05-Jul-2024 14:00
<b>TOTAL ORGANIC CARBON BY SW9060A</b>		Method:SW9060				Analyst: MZD	
Organic Carbon, Total	34.7		0.500	1.00	mg/L	1	17-Jul-2024 23:09
<b>SUB ANALYSIS AVAILABLE CYANIDE - EPA OIA-1667</b>		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	18-Jul-2024 15:27
<b>SUBCONTRACT ANALYSIS - MERCURY LOW</b>		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	18-Jul-2024 15:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

<b>Batch ID:</b> 214532		<b>Start Date:</b> 05 Jul 2024 10:44		<b>End Date:</b> 05 Jul 2024 10:44	
<b>Method:</b> AQPREP SEP FUNNEL: PEST/PCB				<b>Prep Code:</b> 608PR	
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24070259-01		1000 (mL)	10 (mL)	0.01	1-liter amber glass, Neat
<b>Batch ID:</b> 214559		<b>Start Date:</b> 05 Jul 2024 14:00		<b>End Date:</b> 05 Jul 2024 14:00	
<b>Method:</b> 625 AQ SEP FUNNEL EXTRACTION				<b>Prep Code:</b> 625PRF	
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24070259-01		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Sodium thiosulfate
<b>Batch ID:</b> 214560		<b>Start Date:</b> 05 Jul 2024 18:08		<b>End Date:</b> 05 Jul 2024 18:08	
<b>Method:</b> CBOD PREP				<b>Prep Code:</b> CBOD_PR	
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24070259-01		300 (mL)	300 (mL)	1	1-L plastic, Neat
<b>Batch ID:</b> 214561		<b>Start Date:</b> 05 Jul 2024 08:00		<b>End Date:</b> 05 Jul 2024 08:00	
<b>Method:</b> WETCHEMPREP, BOD				<b>Prep Code:</b> BOD_PR 5210B	
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24070259-01		300 (mL)	300 (mL)	1	1-L plastic, Neat
<b>Batch ID:</b> 214777		<b>Start Date:</b> 12 Jul 2024 09:00		<b>End Date:</b> 12 Jul 2024 09:00	
<b>Method:</b> PHOSPHOROUS				<b>Prep Code:</b> P_TW_PR	
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24070259-01		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2
<b>Batch ID:</b> 214876		<b>Start Date:</b> 15 Jul 2024 16:00		<b>End Date:</b> 15 Jul 2024 16:00	
<b>Method:</b> NITROGEN AMMONIA - WATER - PREP				<b>Prep Code:</b> NIT_AMM_W_PR	
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24070259-01		5 (mL)	25 (mL)	5	500 mL plastic, H2SO4 to pH <2
<b>Batch ID:</b> 214951		<b>Start Date:</b> 17 Jul 2024 10:00		<b>End Date:</b> 17 Jul 2024 10:00	
<b>Method:</b> TOTAL METALS PREP BY E200.8, REV 5.4, 1994				<b>Prep Code:</b> 200.8PR	
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24070259-01		10 (mL)	10 (mL)	1	120 plastic HNO3
<b>Batch ID:</b> 215031		<b>Start Date:</b> 19 Jul 2024 08:30		<b>End Date:</b> 19 Jul 2024 08:30	
<b>Method:</b> TKN WATER - PREP				<b>Prep Code:</b> TKN_W_PR	
<b>Sample ID</b>	<b>Container</b>	<b>Sample Wt/Vol</b>	<b>Final Volume</b>	<b>Prep Factor</b>	
HS24070259-01		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 214532 ( 0 )		<b>Test Name :</b> CHLORINATED PEST/PCBS BY E608			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30		05 Jul 2024 10:44	16 Jul 2024 08:40	1
<b>Batch ID:</b> 214532 ( 1 )		<b>Test Name :</b> CHLORINATED PEST/PCBS BY E608			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30		05 Jul 2024 10:44	12 Jul 2024 23:06	1
<b>Batch ID:</b> 214559 ( 0 )		<b>Test Name :</b> SEMIVOLATILE			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30		05 Jul 2024 14:00	11 Jul 2024 20:53	1
<b>Batch ID:</b> 214560 ( 0 )		<b>Test Name :</b> CBOD BY SM5210B-2011			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30		05 Jul 2024 18:08	10 Jul 2024 12:54	1
<b>Batch ID:</b> 214561 ( 0 )		<b>Test Name :</b> BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30		05 Jul 2024 08:00	10 Jul 2024 13:00	1
<b>Batch ID:</b> 214777 ( 0 )		<b>Test Name :</b> PHOSPHORUS BY E365.3-1978			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30		12 Jul 2024 09:00	12 Jul 2024 14:52	1
<b>Batch ID:</b> 214876 ( 0 )		<b>Test Name :</b> AMMONIA AS N BY SM4500 NH3-B-F-2011			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30		15 Jul 2024 16:00	16 Jul 2024 14:41	1
<b>Batch ID:</b> 214951 ( 1 )		<b>Test Name :</b> TOTAL METALS BY E200.8, REV 5.4, 1994			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30		17 Jul 2024 10:00	18 Jul 2024 21:53	1
<b>Batch ID:</b> 215031 ( 0 )		<b>Test Name :</b> TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30		19 Jul 2024 08:30	19 Jul 2024 14:30	1
<b>Batch ID:</b> R471354 ( 0 )		<b>Test Name :</b> DISSOLVED OXYGEN BY SM4500-O G			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			05 Jul 2024 17:57	1
<b>Batch ID:</b> R471356 ( 0 )		<b>Test Name :</b> HEXAVALENT CHROMIUM BY SW7196A			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			05 Jul 2024 14:00	1
<b>Batch ID:</b> R471379 ( 0 )		<b>Test Name :</b> ANIONS BY E300.0, REV 2.1, 1993			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			05 Jul 2024 17:24	1
<b>Batch ID:</b> R471581 ( 0 )		<b>Test Name :</b> VOLATILES			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			09 Jul 2024 15:20	1
<b>Batch ID:</b> R471599 ( 0 )		<b>Test Name :</b> ALKALINITY BY -2011			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			10 Jul 2024 13:32	1
<b>Batch ID:</b> R471601 ( 0 )		<b>Test Name :</b> TOTAL DISSOLVED SOLIDS BY SM2540C-2011			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			10 Jul 2024 08:30	1
<b>Batch ID:</b> R471720 ( 0 )		<b>Test Name :</b> TOTAL SUSPENDED SOLIDS BY SM 2540D-2011			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			11 Jul 2024 10:30	1
<b>Batch ID:</b> R471818 ( 0 )		<b>Test Name :</b> PH BY SM4500H+ B-2011			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			12 Jul 2024 14:22	1

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> R472131 ( 0 )		<b>Test Name :</b> RESIDUAL CHLORINE BY SM4500CL F-2011			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			17 Jul 2024 14:21	1
<b>Batch ID:</b> R472176 ( 0 )		<b>Test Name :</b> TOTAL ORGANIC CARBON BY SW9060A			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			17 Jul 2024 23:09	1
<b>Batch ID:</b> R472254 ( 0 )		<b>Test Name :</b> SUBCONTRACT ANALYSIS - MERCURY LOW			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			18 Jul 2024 15:27	1
HS24070259-01	SB-57	05 Jul 2024 10:30			18 Jul 2024 15:27	1
<b>Batch ID:</b> R472273 ( 0 )		<b>Test Name :</b> CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			18 Jul 2024 15:30	1
<b>Batch ID:</b> R472356 ( 0 )		<b>Test Name :</b> OIL & GREASE (HEM) BY E1664A			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			19 Jul 2024 07:00	1
<b>Batch ID:</b> R472495 ( 0 )		<b>Test Name :</b> TRIVALENT CHROMIUM			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			23 Jul 2024 09:26	1
<b>Batch ID:</b> R472497 ( 0 )		<b>Test Name :</b> ORGANIC NITROGEN BY SM4500-NH3D MINUS NH3F-2011			<b>Matrix:</b> Water	
HS24070259-01	SB-57	05 Jul 2024 10:30			23 Jul 2024 09:37	1

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** 214532 ( 0 )      **Instrument:** ECD\_15      **Method:** CHLORINATED PEST/PCBS BY E608

MBLK	Sample ID: MBLK1-214532	Units: ug/L			Analysis Date: 16-Jul-2024 09:38					
Client ID:	Run ID: ECD_15_472017	SeqNo: 8140940	PrepDate: 05-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	U	0.100								
4,4'-DDE	U	0.100								
4,4'-DDT	U	0.100								
Aldrin	U	0.0500								
alpha-BHC	U	0.0500								
beta-BHC	U	0.0500								
Chlordane	U	0.500								
delta-BHC	U	0.0500								
Dieldrin	U	0.100								
Endosulfan I	U	0.0500								
Endosulfan II	U	0.100								
Endosulfan sulfate	U	0.100								
Endrin	U	0.100								
Endrin aldehyde	U	0.100								
gamma-BHC	U	0.0500								
Heptachlor	U	0.0500								
Heptachlor epoxide	U	0.0500								
Toxaphene	U	0.500								
Surr: Decachlorobiphenyl	0.2427	0.100	0.2	0	121	61 - 154				
Surr: Tetrachlor-m-xylene	0.2102	0.0500	0.2	0	105	60 - 144				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214532 ( 0 )		Instrument: ECD_15		Method: CHLORINATED PEST/PCBS BY E608						
LCS	Sample ID: LCS1-214532	Units: ug/L			Analysis Date: 16-Jul-2024 08:59					
Client ID:	Run ID: ECD_15_472017	SeqNo: 8140938	PrepDate: 05-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.5497	0.100	0.5	0	110	53 - 144				
4,4'-DDE	0.5457	0.100	0.5	0	109	55 - 144				
4,4'-DDT	0.4904	0.100	0.5	0	98.1	53 - 149				
Aldrin	0.2757	0.0500	0.25	0	110	47 - 141				
alpha-BHC	0.29	0.0500	0.25	0	116	51 - 141				
beta-BHC	0.269	0.0500	0.25	0	108	58 - 144				
delta-BHC	0.2832	0.0500	0.25	0	113	48 - 146				
Dieldrin	0.5518	0.100	0.5	0	110	56 - 144				
Endosulfan I	0.2595	0.0500	0.25	0	104	55 - 141				
Endosulfan II	0.4957	0.100	0.5	0	99.1	57 - 144				
Endosulfan sulfate	0.531	0.100	0.5	0	106	58 - 145				
Endrin	0.5521	0.100	0.5	0	110	60 - 163				
Endrin aldehyde	0.5304	0.100	0.5	0	106	59 - 158				
gamma-BHC	0.2866	0.0500	0.25	0	115	53 - 142				
Heptachlor	0.292	0.0500	0.25	0	117	51 - 144				
Heptachlor epoxide	0.2736	0.0500	0.25	0	109	55 - 142				
<i>Surr: Decachlorobiphenyl</i>	<i>0.2408</i>	<i>0.100</i>	<i>0.2</i>	<i>0</i>	<i>120</i>	<i>61 - 154</i>				
<i>Surr: Tetrachlor-m-xylene</i>	<i>0.2127</i>	<i>0.0500</i>	<i>0.2</i>	<i>0</i>	<i>106</i>	<i>60 - 144</i>				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** 214532 ( 0 )      **Instrument:** ECD\_15      **Method:** CHLORINATED PEST/PCBS BY E608

LCSD		Sample ID: LCSD1-214532			Units: ug/L		Analysis Date: 16-Jul-2024 09:19			
Client ID:		Run ID: ECD_15_472017			SeqNo: 8140939		PrepDate: 05-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.5617	0.100	0.5	0	112	53 - 144	0.5497	2.16	20	
4,4'-DDE	0.5546	0.100	0.5	0	111	55 - 144	0.5457	1.6	20	
4,4'-DDT	0.5	0.100	0.5	0	100.0	53 - 149	0.4904	1.93	20	
Aldrin	0.2804	0.0500	0.25	0	112	47 - 141	0.2757	1.68	20	
alpha-BHC	0.2907	0.0500	0.25	0	116	51 - 141	0.29	0.241	20	
beta-BHC	0.2722	0.0500	0.25	0	109	58 - 144	0.269	1.19	20	
delta-BHC	0.2863	0.0500	0.25	0	115	48 - 146	0.2832	1.09	20	
Dieldrin	0.5597	0.100	0.5	0	112	56 - 144	0.5518	1.42	20	
Endosulfan I	0.2651	0.0500	0.25	0	106	55 - 141	0.2595	2.15	20	
Endosulfan II	0.51	0.100	0.5	0	102	57 - 144	0.4957	2.85	20	
Endosulfan sulfate	0.5404	0.100	0.5	0	108	58 - 145	0.531	1.75	20	
Endrin	0.5625	0.100	0.5	0	112	60 - 163	0.5521	1.85	20	
Endrin aldehyde	0.538	0.100	0.5	0	108	59 - 158	0.5304	1.42	20	
gamma-BHC	0.2882	0.0500	0.25	0	115	53 - 142	0.2866	0.529	20	
Heptachlor	0.2912	0.0500	0.25	0	116	51 - 144	0.292	0.281	20	
Heptachlor epoxide	0.2777	0.0500	0.25	0	111	55 - 142	0.2736	1.52	20	
Surr: Decachlorobiphenyl	0.2475	0.100	0.2	0	124	61 - 154	0.2408	2.76	20	
Surr: Tetrachlor-m-xylene	0.2118	0.0500	0.2	0	106	60 - 144	0.2127	0.434	20	

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

<b>Batch ID:</b> 214532 ( 1 )	<b>Instrument:</b> ECD_7	<b>Method:</b> CHLORINATED PEST/PCBS BY E608
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<b>MBLK</b>	Sample ID: <b>MBLK-214532</b>	Units: <b>ug/L</b>		Analysis Date: <b>12-Jul-2024 23:56</b>						
Client ID:	Run ID: <b>ECD_7_471888</b>	SeqNo: <b>8138068</b>	PrepDate: <b>05-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	0.500								
Aroclor 1221	U	0.500								
Aroclor 1232	U	0.500								
Aroclor 1242	U	0.500								
Aroclor 1248	U	0.500								
Aroclor 1254	U	0.500								
Aroclor 1260	U	0.500								
<i>Surr: Decachlorobiphenyl</i>	0.194	0.100	0.2	0	97.0	61 - 154				
<i>Surr: Tetrachlor-m-xylene</i>	0.1802	0.0500	0.2	0	90.1	60 - 144				

<b>LCS</b>	Sample ID: <b>LCS-214532</b>	Units: <b>ug/L</b>		Analysis Date: <b>12-Jul-2024 23:31</b>						
Client ID:	Run ID: <b>ECD_7_471888</b>	SeqNo: <b>8138066</b>	PrepDate: <b>05-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.964	0.500	5	0	99.3	54 - 138				
Aroclor 1260	4.196	0.500	5	0	83.9	57 - 136				
<i>Surr: Decachlorobiphenyl</i>	0.1996	0.100	0.2	0	99.8	61 - 154				
<i>Surr: Tetrachlor-m-xylene</i>	0.1751	0.0500	0.2	0	87.5	60 - 144				

<b>LCSD</b>	Sample ID: <b>LCSD-214532</b>	Units: <b>ug/L</b>		Analysis Date: <b>12-Jul-2024 23:43</b>						
Client ID:	Run ID: <b>ECD_7_471888</b>	SeqNo: <b>8138067</b>	PrepDate: <b>05-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.684	0.500	5	0	93.7	54 - 138	4.964	5.8	20	
Aroclor 1260	4.321	0.500	5	0	86.4	57 - 136	4.196	2.94	20	
<i>Surr: Decachlorobiphenyl</i>	0.2092	0.100	0.2	0	105	61 - 154	0.1996	4.67	20	
<i>Surr: Tetrachlor-m-xylene</i>	0.1864	0.0500	0.2	0	93.2	60 - 144	0.1751	6.29	20	

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

<b>Batch ID:</b> 214951 ( 1 )	<b>Instrument:</b> ICPMS07	<b>Method:</b> TOTAL METALS BY E200.8, REV 5.4, 1994								
<b>MBLK</b>	Sample ID: <b>MBLK-214951</b>	Units: <b>ug/l</b>	Analysis Date: <b>18-Jul-2024 20:30</b>							
Client ID:	Run ID: <b>ICPMS07_472206</b>	SeqNo: <b>8151351</b>	PrepDate: <b>17-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Aluminum	U	10.0								
Antimony	U	5.00								
Arsenic	U	2.00								
Barium	U	4.00								
Beryllium	U	5.00								
Cadmium	U	2.00								
Chromium	U	4.00								
Copper	U	2.00								
Iron	U	200								
Lead	U	2.00								
Magnesium	U	500								
Manganese	U	5.00								
Molybdenum	U	5.00								
Nickel	U	2.00								
Selenium	U	2.00								
Silver	U	2.00								
Thallium	U	2.00								
Zinc	U	4.00								

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** 214951 ( 1 )      **Instrument:** ICPMS07      **Method:** TOTAL METALS BY E200.8, REV 5.4, 1994

LCS		Sample ID: LCS-214951			Units: ug/l		Analysis Date: 18-Jul-2024 20:32			
Client ID:		Run ID: ICPMS07_472206			SeqNo: 8151352		PrepDate: 17-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	108.4	10.0	100	0	108	85 - 115				
Antimony	44.54	5.00	50	0	89.1	85 - 115				
Arsenic	47.67	2.00	50	0	95.3	85 - 115				
Barium	44.72	4.00	50	0	89.4	85 - 115				
Beryllium	44.92	5.00	50	0	89.8	85 - 115				
Cadmium	44.96	2.00	50	0	89.9	85 - 115				
Chromium	45.38	4.00	50	0	90.8	85 - 115				
Copper	45.55	2.00	50	0	91.1	85 - 115				
Iron	4693	200	5000	0	93.9	85 - 115				
Lead	46.11	2.00	50	0	92.2	85 - 115				
Magnesium	4726	500	5000	0	94.5	85 - 115				
Manganese	46.05	5.00	50	0	92.1	85 - 115				
Molybdenum	44.81	5.00	50	0	89.6	85 - 115				
Nickel	45.37	2.00	50	0	90.7	85 - 115				
Selenium	47.12	2.00	50	0	94.2	85 - 115				
Silver	47.3	2.00	50	0	94.6	85 - 115				
Zinc	50.35	4.00	50	0	101	85 - 115				

LCS		Sample ID: LCS-214951			Units: ug/l		Analysis Date: 23-Jul-2024 12:46			
Client ID:		Run ID: ICPMS05_472538			SeqNo: 8152143		PrepDate: 17-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	43.41	2.00	50	0	86.8	85 - 115				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214951 ( 1 )		Instrument: ICPMS07		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MS	Sample ID: HS24070249-02MS	Units: ug/l			Analysis Date: 18-Jul-2024 21:36					
Client ID:	Run ID: ICPMS07_472206	SeqNo: 8151360	PrepDate: 17-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	105.1	10.0	100	11.58	93.5	70 - 130				
Antimony	41.94	5.00	50	0.08	83.7	70 - 130				
Arsenic	48.15	2.00	50	0.914	94.5	70 - 130				
Barium	50.26	4.00	50	6.408	87.7	70 - 130				
Beryllium	46.6	5.00	50	0.003	93.2	70 - 130				
Cadmium	40.98	2.00	50	0.014	81.9	70 - 130				
Chromium	43.41	4.00	50	0.607	85.6	70 - 130				
Copper	40.95	2.00	50	0.359	81.2	70 - 130				
Iron	5656	200	5000	1075	91.6	70 - 130				
Lead	44.3	2.00	50	0.076	88.4	70 - 130				
Magnesium	178500	500	5000	165200	266	70 - 130				SO
Manganese	1532	5.00	50	1400	264	70 - 130				SO
Molybdenum	44.17	5.00	50	1.616	85.1	70 - 130				
Nickel	50.08	2.00	50	8.182	83.8	70 - 130				
Selenium	50.41	2.00	50	0.271	100	70 - 130				
Silver	41.75	2.00	50	0.019	83.5	70 - 130				
Thallium	37.4	2.00	50	0.106	74.6	70 - 130				
Zinc	51.28	4.00	50	7.23	88.1	70 - 130				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214951 ( 1 )		Instrument: ICPMS07		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MS	Sample ID: HS24070249-01MS	Units: ug/l			Analysis Date: 18-Jul-2024 23:42					
Client ID:	Run ID: ICPMS07_472206	SeqNo: 8151392	PrepDate: 17-Jul-2024	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	115.8	50.0	100	11.87	104	70 - 130				
Antimony	41.43	25.0	50	0	82.9	70 - 130				
Arsenic	53.57	10.0	50	6.582	94.0	70 - 130				
Barium	52.47	20.0	50	8.952	87.0	70 - 130				
Beryllium	47.14	25.0	50	0	94.3	70 - 130				
Cadmium	41.33	10.0	50	0	82.7	70 - 130				
Chromium	41.65	20.0	50	0	83.3	70 - 130				
Copper	39.64	10.0	50	0	79.3	70 - 130				
Iron	29760	1000	500	25010	950	70 - 130				SO
Lead	42.4	10.0	50	0	84.8	70 - 130				
Magnesium	2497000	2500	500	2459000	7580	70 - 130				SEO
Manganese	2180	25.0	50	2115	130	70 - 130				O
Molybdenum	113.4	25.0	50	68.64	89.5	70 - 130				
Nickel	78.71	10.0	50	35.57	86.3	70 - 130				
Selenium	53.46	10.0	50	0	107	70 - 130				
Silver	40.39	10.0	50	0	80.8	70 - 130				
Thallium	34.87	10.0	50	0	69.7	70 - 130				S
Zinc	51.53	20.0	50	7.901	87.3	70 - 130				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214951 ( 1 )		Instrument: ICPMS07		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MSD	Sample ID: HS24070249-02MSD	Units: ug/l			Analysis Date: 18-Jul-2024 21:41					
Client ID:	Run ID: ICPMS07_472206	SeqNo: 8151361	PrepDate: 17-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	104.4	10.0	100	11.58	92.8	70 - 130	105.1	0.671	20	
Antimony	42.16	5.00	50	0.08	84.2	70 - 130	41.94	0.523	20	
Arsenic	47.78	2.00	50	0.914	93.7	70 - 130	48.15	0.767	20	
Barium	50.12	4.00	50	6.408	87.4	70 - 130	50.26	0.271	20	
Beryllium	45.93	5.00	50	0.003	91.9	70 - 130	46.6	1.44	20	
Cadmium	40.35	2.00	50	0.014	80.7	70 - 130	40.98	1.54	20	
Chromium	42.8	4.00	50	0.607	84.4	70 - 130	43.41	1.42	20	
Copper	40.96	2.00	50	0.359	81.2	70 - 130	40.95	0.0317	20	
Iron	5654	200	5000	1075	91.6	70 - 130	5656	0.0317	20	
Lead	44.14	2.00	50	0.076	88.1	70 - 130	44.3	0.351	20	
Magnesium	177000	500	5000	165200	236	70 - 130	178500	0.853	20	SO
Manganese	1527	5.00	50	1400	254	70 - 130	1532	0.328	20	SO
Molybdenum	44.1	5.00	50	1.616	85.0	70 - 130	44.17	0.143	20	
Nickel	49.73	2.00	50	8.182	83.1	70 - 130	50.08	0.715	20	
Selenium	49.46	2.00	50	0.271	98.4	70 - 130	50.41	1.9	20	
Silver	41.88	2.00	50	0.019	83.7	70 - 130	41.75	0.32	20	
Thallium	37.3	2.00	50	0.106	74.4	70 - 130	37.4	0.273	20	
Zinc	51.18	4.00	50	7.23	87.9	70 - 130	51.28	0.207	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214951 ( 1 )		Instrument: ICPMS07		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MSD	Sample ID: HS24070249-01MSD	Units: ug/l			Analysis Date: 18-Jul-2024 23:47					
Client ID:	Run ID: ICPMS07_472206	SeqNo: 8151393	PrepDate: 17-Jul-2024	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	102.2	50.0	100	11.87	90.4	70 - 130	115.8	12.5	20	
Antimony	40.54	25.0	50	0	81.1	70 - 130	41.43	2.16	20	
Arsenic	53	10.0	50	6.582	92.8	70 - 130	53.57	1.07	20	
Barium	51.72	20.0	50	8.952	85.5	70 - 130	52.47	1.43	20	
Beryllium	47.04	25.0	50	0	94.1	70 - 130	47.14	0.217	20	
Cadmium	41.9	10.0	50	0	83.8	70 - 130	41.33	1.38	20	
Chromium	40.8	20.0	50	0	81.6	70 - 130	41.65	2.07	20	
Copper	39.72	10.0	50	0	79.4	70 - 130	39.64	0.184	20	
Iron	29460	1000	500	25010	889	70 - 130	29760	1.02	20	SO
Lead	42.52	10.0	50	0	85.0	70 - 130	42.4	0.276	20	
Magnesium	2478000	2500	500	2459000	3770	70 - 130	2497000	0.767	20	SEO
Manganese	2151	25.0	50	2115	72.6	70 - 130	2180	1.32	20	O
Molybdenum	112.2	25.0	50	68.64	87.2	70 - 130	113.4	1.01	20	
Nickel	77.57	10.0	50	35.57	84.0	70 - 130	78.71	1.46	20	
Selenium	51.69	10.0	50	0	103	70 - 130	53.46	3.36	20	
Silver	39.81	10.0	50	0	79.6	70 - 130	40.39	1.44	20	
Thallium	34.89	10.0	50	0	69.8	70 - 130	34.87	0.043	20	S
Zinc	51.16	20.0	50	7.901	86.5	70 - 130	51.53	0.715	20	

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
MBLK	Sample ID: MBLK-214559	Units: ug/L			Analysis Date: 11-Jul-2024 15:15					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136912	PrepDate: 05-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	U	5.00								
1,2,4-Trichlorobenzene	U	5.00								
1,2-Diphenylhydrazine	U	5.00								
2,4,5-Trichlorophenol	U	5.00								
2,4,6-Trichlorophenol	U	5.00								
2,4-Dichlorophenol	U	5.00								
2,4-Dimethylphenol	U	5.00								
2,4-Dinitrophenol	U	5.00								
2,4-Dinitrotoluene	U	5.00								
2,6-Dinitrotoluene	U	5.00								
2-Chloronaphthalene	U	5.00								
2-Chlorophenol	U	5.00								
2-Methylphenol	U	5.00								
2-Nitrophenol	U	5.00								
3&4-Methylphenol	U	5.00								
3,3'-Dichlorobenzidine	U	5.00								
4,6-Dinitro-2-methylphenol	U	5.00								
4-Bromophenyl phenyl ether	U	5.00								
4-Chloro-3-methylphenol	U	5.00								
4-Chlorophenyl phenyl ether	U	5.00								
4-Nitrophenol	U	5.00								
Acenaphthene	U	5.00								
Acenaphthylene	U	5.00								
Anthracene	U	5.00								
Benz(a)anthracene	U	5.00								
Benzidine	U	5.00								
Benzo(a)pyrene	U	5.00								
Benzo(b)fluoranthene	U	5.00								
Benzo(g,h,i)perylene	U	5.00								
Benzo(k)fluoranthene	U	5.00								
Bis(2-chloroethoxy)methane	U	5.00								
Bis(2-chloroethyl)ether	U	5.00								
Bis(2-chloroisopropyl)ether	U	5.00								
Bis(2-ethylhexyl)phthalate	U	5.00								

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
MBLK	Sample ID: MBLK-214559	Units: ug/L			Analysis Date: 11-Jul-2024 15:15					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136912	PrepDate: 05-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Butyl benzyl phthalate	U	5.00								
Chrysene	U	5.00								
Dibenz(a,h)anthracene	U	5.00								
Diethyl phthalate	U	5.00								
Dimethyl phthalate	U	5.00								
Di-n-butyl phthalate	U	5.00								
Di-n-octyl phthalate	U	5.00								
Fluoranthene	U	5.00								
Fluorene	U	5.00								
Hexachlorobenzene	U	5.00								
Hexachlorobutadiene	U	5.00								
Hexachlorocyclopentadiene	U	5.00								
Hexachloroethane	U	5.00								
Indeno(1,2,3-cd)pyrene	U	5.00								
Isophorone	U	5.00								
Nitrobenzene	U	5.00								
N-Nitrosodiethylamine	U	5.00								
N-Nitrosodimethylamine	U	5.00								
N-Nitroso-di-n-butylamine	U	5.00								
N-Nitrosodi-n-propylamine	U	5.00								
N-Nitrosodiphenylamine	U	5.00								
Nonylphenol	U	5.00								
Pentachlorobenzene	U	5.00								
Pentachlorophenol	U	5.00								
Phenanthrene	U	5.00								
Phenol	U	5.00								
Pyrene	U	5.00								
Pyridine	U	5.00								
Surr: 2,4,6-Tribromophenol	81.85	5.00	100	0	81.8	42 - 124				
Surr: 2-Fluorobiphenyl	88.09	5.00	100	0	88.1	48 - 120				
Surr: 2-Fluorophenol	72.25	5.00	100	0	72.3	20 - 120				
Surr: 4-Terphenyl-d14	86.99	5.00	100	0	87.0	51 - 135				
Surr: Nitrobenzene-d5	80.91	5.00	100	0	80.9	41 - 120				
Surr: Phenol-d6	74.54	5.00	100	0	74.5	20 - 120				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS-214559	Units: ug/L			Analysis Date: 11-Jul-2024 15:37					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136913	PrepDate: 05-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	86.43	5.00	100	0	86.4	49 - 120				
1,2,4-Trichlorobenzene	80.57	5.00	100	0	80.6	54 - 118				
1,2-Diphenylhydrazine	81.04	5.00	100	0	81.0	57 - 134				
2,4,5-Trichlorophenol	80.7	5.00	100	0	80.7	52 - 115				
2,4,6-Trichlorophenol	89.03	5.00	100	0	89.0	56 - 115				
2,4-Dichlorophenol	81.86	5.00	100	0	81.9	53 - 115				
2,4-Dimethylphenol	89.7	5.00	100	0	89.7	53 - 115				
2,4-Dinitrophenol	95.64	5.00	100	0	95.6	47 - 115				
2,4-Dinitrotoluene	83.11	5.00	100	0	83.1	56 - 115				
2,6-Dinitrotoluene	84.77	5.00	100	0	84.8	57 - 115				
2-Chloronaphthalene	89.8	5.00	100	0	89.8	65 - 125				
2-Chlorophenol	80.1	5.00	100	0	80.1	54 - 115				
2-Methylphenol	78.75	5.00	100	0	78.8	53 - 115				
2-Nitrophenol	82.39	5.00	100	0	82.4	53 - 115				
3&4-Methylphenol	78.5	5.00	100	0	78.5	48 - 115				
3,3'-Dichlorobenzidine	33.04	5.00	100	0	33.0	25 - 115				
4,6-Dinitro-2-methylphenol	99.02	5.00	100	0	99.0	51 - 121				
4-Bromophenyl phenyl ether	89.47	5.00	100	0	89.5	49 - 115				
4-Chloro-3-methylphenol	80.61	5.00	100	0	80.6	51 - 115				
4-Chlorophenyl phenyl ether	77.92	5.00	100	0	77.9	56 - 115				
4-Nitrophenol	80.73	5.00	100	0	80.7	26 - 133				
Acenaphthene	81.6	5.00	100	0	81.6	57 - 115				
Acenaphthylene	83.98	5.00	100	0	84.0	57 - 118				
Anthracene	89.74	5.00	100	0	89.7	65 - 115				
Benz(a)anthracene	86.73	5.00	100	0	86.7	53 - 115				
Benzidine	5.476	5.00	100	0	5.48	10 - 115				S
Benzo(a)pyrene	89.56	5.00	100	0	89.6	57 - 115				
Benzo(b)fluoranthene	98.24	5.00	100	0	98.2	54 - 117				
Benzo(g,h,i)perylene	87	5.00	100	0	87.0	56 - 115				
Benzo(k)fluoranthene	85.89	5.00	100	0	85.9	50 - 115				
Bis(2-chloroethoxy)methane	77.52	5.00	100	0	77.5	54 - 115				
Bis(2-chloroethyl)ether	75.18	5.00	100	0	75.2	56 - 115				
Bis(2-chloroisopropyl)ether	76.35	5.00	100	0	76.4	48 - 115				
Bis(2-ethylhexyl)phthalate	78.67	5.00	100	0	78.7	50 - 115				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS-214559	Units: ug/L			Analysis Date: 11-Jul-2024 15:37					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136913		PrepDate: 05-Jul-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Butyl benzyl phthalate	82.98	5.00	100	0	83.0	51 - 115				
Chrysene	84.41	5.00	100	0	84.4	52 - 120				
Dibenz(a,h)anthracene	87.88	5.00	100	0	87.9	56 - 115				
Diethyl phthalate	83.02	5.00	100	0	83.0	57 - 115				
Dimethyl phthalate	82.93	5.00	100	0	82.9	56 - 115				
Di-n-butyl phthalate	89.59	5.00	100	0	89.6	54 - 115				
Di-n-octyl phthalate	82.15	5.00	100	0	82.2	49 - 115				
Fluoranthene	90.22	5.00	100	0	90.2	58 - 115				
Fluorene	81.14	5.00	100	0	81.1	56 - 115				
Hexachlorobenzene	93.73	5.00	100	0	93.7	54 - 115				
Hexachlorobutadiene	80.51	5.00	100	0	80.5	51 - 115				
Hexachlorocyclopentadiene	87.03	5.00	100	0	87.0	48 - 115				
Hexachloroethane	76.65	5.00	100	0	76.6	54 - 115				
Indeno(1,2,3-cd)pyrene	88.58	5.00	100	0	88.6	51 - 115				
Isophorone	77.72	5.00	100	0	77.7	55 - 115				
Nitrobenzene	73.99	5.00	100	0	74.0	40 - 124				
N-Nitrosodiethylamine	U	5.00	50	0	0	40 - 130			S	
N-Nitrosodimethylamine	69.71	5.00	100	0	69.7	42 - 115				
N-Nitroso-di-n-butylamine	U	5.00	50	0	0	40 - 130			S	
N-Nitrosodi-n-propylamine	73.3	5.00	100	0	73.3	55 - 119				
N-Nitrosodiphenylamine	89.23	5.00	100	0	89.2	52 - 115				
Pentachlorobenzene	91.21	5.00	100	0	91.2	50 - 117				
Pentachlorophenol	92.93	5.00	100	0	92.9	45 - 125				
Phenanthrene	90.31	5.00	100	0	90.3	57 - 115				
Phenol	77.2	5.00	100	0	77.2	38 - 115				
Pyrene	87.17	5.00	100	0	87.2	54 - 119				
Pyridine	60.24	5.00	100	0	60.2	34 - 115				
Surr: 2,4,6-Tribromophenol	85.03	5.00	100	0	85.0	42 - 124				
Surr: 2-Fluorobiphenyl	85.19	5.00	100	0	85.2	48 - 120				
Surr: 2-Fluorophenol	76.82	5.00	100	0	76.8	20 - 120				
Surr: 4-Terphenyl-d14	85.95	5.00	100	0	86.0	51 - 135				
Surr: Nitrobenzene-d5	76.36	5.00	100	0	76.4	41 - 120				
Surr: Phenol-d6	78.56	5.00	100	0	78.6	20 - 120				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS1-214559	Units: ug/L			Analysis Date: 11-Jul-2024 16:21					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136915		PrepDate: 05-Jul-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nonylphenol	48.92	5.00	50	0	97.8	40 - 140				
<i>Surr: 2,4,6-Tribromophenol</i>	3.965	5.00	5	0	79.3	42 - 124				J
<i>Surr: 2-Fluorobiphenyl</i>	3.695	5.00	5	0	73.9	48 - 120				J
<i>Surr: 2-Fluorophenol</i>	3.306	5.00	5	0	66.1	20 - 120				J
<i>Surr: 4-Terphenyl-d14</i>	3.875	5.00	5	0	77.5	51 - 135				J
<i>Surr: Nitrobenzene-d5</i>	3.612	5.00	5	0	72.2	41 - 120				J
<i>Surr: Phenol-d6</i>	3.284	5.00	5	0	65.7	20 - 120				J

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCSD		Sample ID: LCSD-214559		Units: ug/L		Analysis Date: 11-Jul-2024 15:59				
Client ID:		Run ID: SV-4_471855		SeqNo: 8136914		PrepDate: 05-Jul-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	97.27	5.00	100	0	97.3	49 - 120	86.43	11.8	20	
1,2,4-Trichlorobenzene	87.19	5.00	100	0	87.2	54 - 118	80.57	7.9	20	
1,2-Diphenylhydrazine	97.02	5.00	100	0	97.0	57 - 134	81.04	17.9	20	
2,4,5-Trichlorophenol	88.91	5.00	100	0	88.9	52 - 115	80.7	9.68	20	
2,4,6-Trichlorophenol	94.84	5.00	100	0	94.8	56 - 115	89.03	6.32	20	
2,4-Dichlorophenol	88.55	5.00	100	0	88.6	53 - 115	81.86	7.85	20	
2,4-Dimethylphenol	96.52	5.00	100	0	96.5	53 - 115	89.7	7.32	20	
2,4-Dinitrophenol	95.55	5.00	100	0	95.6	47 - 115	95.64	0.0915	20	
2,4-Dinitrotoluene	83.69	5.00	100	0	83.7	56 - 115	83.11	0.705	20	
2,6-Dinitrotoluene	90.48	5.00	100	0	90.5	57 - 115	84.77	6.52	20	
2-Chloronaphthalene	106.9	5.00	100	0	107	65 - 125	89.8	17.4	20	
2-Chlorophenol	89.21	5.00	100	0	89.2	54 - 115	80.1	10.8	20	
2-Methylphenol	86.93	5.00	100	0	86.9	53 - 115	78.75	9.87	20	
2-Nitrophenol	89.18	5.00	100	0	89.2	53 - 115	82.39	7.91	20	
3&4-Methylphenol	77.71	5.00	100	0	77.7	48 - 115	78.5	1	20	
3,3'-Dichlorobenzidine	43.17	5.00	100	0	43.2	25 - 115	33.04	26.6	20	R
4,6-Dinitro-2-methylphenol	98.3	5.00	100	0	98.3	51 - 121	99.02	0.724	20	
4-Bromophenyl phenyl ether	95.45	5.00	100	0	95.5	49 - 115	89.47	6.47	20	
4-Chloro-3-methylphenol	80.69	5.00	100	0	80.7	51 - 115	80.61	0.104	20	
4-Chlorophenyl phenyl ether	83.24	5.00	100	0	83.2	56 - 115	77.92	6.6	20	
4-Nitrophenol	75.15	5.00	100	0	75.1	26 - 133	80.73	7.17	20	
Acenaphthene	87.73	5.00	100	0	87.7	57 - 115	81.6	7.23	20	
Acenaphthylene	91.03	5.00	100	0	91.0	57 - 118	83.98	8.06	20	
Anthracene	93.88	5.00	100	0	93.9	65 - 115	89.74	4.51	20	
Benz(a)anthracene	93.48	5.00	100	0	93.5	53 - 115	86.73	7.49	20	
Benzidine	7.05	5.00	100	0	7.05	10 - 115	5.476	25.1	20	SR
Benzo(a)pyrene	91.57	5.00	100	0	91.6	57 - 115	89.56	2.22	20	
Benzo(b)fluoranthene	108.4	5.00	100	0	108	54 - 117	98.24	9.8	20	
Benzo(g,h,i)perylene	86.04	5.00	100	0	86.0	56 - 115	87	1.12	20	
Benzo(k)fluoranthene	81.87	5.00	100	0	81.9	50 - 115	85.89	4.78	20	
Bis(2-chloroethoxy)methane	84.4	5.00	100	0	84.4	54 - 115	77.52	8.5	20	
Bis(2-chloroethyl)ether	108.6	5.00	100	0	109	56 - 115	75.18	36.3	20	R
Bis(2-chloroisopropyl)ether	80.82	5.00	100	0	80.8	48 - 115	76.35	5.68	20	
Bis(2-ethylhexyl)phthalate	88.4	5.00	100	0	88.4	50 - 115	78.67	11.6	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCSD		Sample ID: LCSD-214559		Units: ug/L		Analysis Date: 11-Jul-2024 15:59				
Client ID:		Run ID: SV-4_471855		SeqNo: 8136914		PrepDate: 05-Jul-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Butyl benzyl phthalate	88.8	5.00	100	0	88.8	51 - 115	82.98	6.77	20	
Chrysene	84.64	5.00	100	0	84.6	52 - 120	84.41	0.277	20	
Dibenz(a,h)anthracene	90.75	5.00	100	0	90.7	56 - 115	87.88	3.21	20	
Diethyl phthalate	85.78	5.00	100	0	85.8	57 - 115	83.02	3.27	20	
Dimethyl phthalate	86.88	5.00	100	0	86.9	56 - 115	82.93	4.65	20	
Di-n-butyl phthalate	98.17	5.00	100	0	98.2	54 - 115	89.59	9.14	20	
Di-n-octyl phthalate	89.37	5.00	100	0	89.4	49 - 115	82.15	8.42	20	
Fluoranthene	93.52	5.00	100	0	93.5	58 - 115	90.22	3.59	20	
Fluorene	84.76	5.00	100	0	84.8	56 - 115	81.14	4.37	20	
Hexachlorobenzene	99.27	5.00	100	0	99.3	54 - 115	93.73	5.74	20	
Hexachlorobutadiene	87.05	5.00	100	0	87.0	51 - 115	80.51	7.8	20	
Hexachlorocyclopentadiene	99.34	5.00	100	0	99.3	48 - 115	87.03	13.2	20	
Hexachloroethane	84.06	5.00	100	0	84.1	54 - 115	76.65	9.22	20	
Indeno(1,2,3-cd)pyrene	90.5	5.00	100	0	90.5	51 - 115	88.58	2.14	20	
Isophorone	82.29	5.00	100	0	82.3	55 - 115	77.72	5.71	20	
Nitrobenzene	80.6	5.00	100	0	80.6	40 - 124	73.99	8.56	20	
N-Nitrosodiethylamine	U	5.00	50	0	0	40 - 130	0	0	20	S
N-Nitrosodimethylamine	75.41	5.00	100	0	75.4	42 - 115	69.71	7.87	20	
N-Nitroso-di-n-butylamine	U	5.00	50	0	0	40 - 130	0	0	20	S
N-Nitrosodi-n-propylamine	64.21	5.00	100	0	64.2	55 - 119	73.3	13.2	20	
N-Nitrosodiphenylamine	97.15	5.00	100	0	97.2	52 - 115	89.23	8.49	20	
Nonylphenol	U	5.00	50	0	0	40 - 140	0	0	20	S
Pentachlorobenzene	98.94	5.00	100	0	98.9	50 - 117	91.21	8.13	20	
Pentachlorophenol	94.99	5.00	100	0	95.0	45 - 125	92.93	2.19	20	
Phenanthrene	94.03	5.00	100	0	94.0	57 - 115	90.31	4.04	20	
Phenol	87.85	5.00	100	0	87.8	38 - 115	77.2	12.9	20	
Pyrene	88.61	5.00	100	0	88.6	54 - 119	87.17	1.64	20	
Pyridine	60.59	5.00	100	0	60.6	34 - 115	60.24	0.576	20	
Surr: 2,4,6-Tribromophenol	86.28	5.00	100	0	86.3	42 - 124	85.03	1.46	20	
Surr: 2-Fluorobiphenyl	94.71	5.00	100	0	94.7	48 - 120	85.19	10.6	20	
Surr: 2-Fluorophenol	85.36	5.00	100	0	85.4	20 - 120	76.82	10.5	20	
Surr: 4-Terphenyl-d14	89	5.00	100	0	89.0	51 - 135	85.95	3.48	20	
Surr: Nitrobenzene-d5	81.86	5.00	100	0	81.9	41 - 120	76.36	6.95	20	
Surr: Phenol-d6	87.44	5.00	100	0	87.4	20 - 120	78.56	10.7	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: 214559 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCSD	Sample ID: LCSD1-214559	Units: ug/L			Analysis Date: 11-Jul-2024 16:43					
Client ID:	Run ID: SV-4_471855	SeqNo: 8136916		PrepDate: 05-Jul-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nonylphenol	54.19	5.00	50	0	108	40 - 140	48.92	10.2	20	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.067</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>81.3</i>	<i>42 - 124</i>	<i>3.965</i>	<i>0</i>	<i>20</i>	<i>J</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>4.008</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>80.2</i>	<i>48 - 120</i>	<i>3.695</i>	<i>0</i>	<i>20</i>	<i>J</i>
<i>Surr: 2-Fluorophenol</i>	<i>3.425</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>68.5</i>	<i>20 - 120</i>	<i>3.306</i>	<i>0</i>	<i>20</i>	<i>J</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>4.461</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>89.2</i>	<i>51 - 135</i>	<i>3.875</i>	<i>0</i>	<i>20</i>	<i>J</i>
<i>Surr: Nitrobenzene-d5</i>	<i>3.925</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>78.5</i>	<i>41 - 120</i>	<i>3.612</i>	<i>0</i>	<i>20</i>	<i>J</i>
<i>Surr: Phenol-d6</i>	<i>3.53</i>	<i>5.00</i>	<i>5</i>	<i>0</i>	<i>70.6</i>	<i>20 - 120</i>	<i>3.284</i>	<i>0</i>	<i>20</i>	<i>J</i>

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: R471581 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MBLK	Sample ID: VBLKW-240709	Units: ug/L			Analysis Date: 09-Jul-2024 12:50					
Client ID:	Run ID: VOA9_471581	SeqNo: 8130546		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.00								
1,1,2,2-Tetrachloroethane	U	5.00								
1,1,2-Trichloroethane	U	5.00								
1,1-Dichloroethane	U	5.00								
1,1-Dichloroethene	U	5.00								
1,2-Dibromoethane	U	5.00								
1,2-Dichlorobenzene	U	5.00								
1,2-Dichloroethane	U	5.00								
1,2-Dichloropropane	U	5.00								
1,3-Dichlorobenzene	U	5.00								
1,4-Dichlorobenzene	U	5.00								
2-Butanone	U	10.0								
2-Chloroethyl vinyl ether	U	10.0								
Acrolein	U	20.0								
Acrylonitrile	U	10.0								
Benzene	U	5.00								
Bromodichloromethane	U	5.00								
Bromoform	U	5.00								
Bromomethane	U	5.00								
Carbon tetrachloride	U	5.00								
Chlorobenzene	U	5.00								
Chloroethane	U	5.00								
Chloroform	U	5.00								
Chloromethane	U	5.00								
cis-1,3-Dichloropropene	U	5.00								
Dibromochloromethane	U	5.00								
Ethylbenzene	U	5.00								
m,p-Xylene	U	10.0								
Methylene chloride	U	10.0								
Naphthalene	U	5.00								
o-Xylene	U	5.00								
Tetrachloroethene	U	5.00								
Toluene	U	5.00								
trans-1,2-Dichloroethene	U	5.00								

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**QC BATCH REPORT**

Batch ID: R471581 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MBLK	Sample ID: VBLKW-240709	Units: ug/L			Analysis Date: 09-Jul-2024 12:50					
Client ID:	Run ID: VOA9_471581	SeqNo: 8130546		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	U	5.00								
Trichloroethene	U	5.00								
Vinyl chloride	U	2.00								
1,3-Dichloropropene, Total	U	5.00								
Xylenes, Total	U	5.00								
<i>Surr: 1,2-Dichloroethane-d4</i>	55.49	5.00	50	0	111	70 - 126				
<i>Surr: 4-Bromofluorobenzene</i>	56.42	5.00	50	0	113	82 - 124				
<i>Surr: Dibromofluoromethane</i>	55.97	5.00	50	0	112	77 - 123				
<i>Surr: Toluene-d8</i>	58.44	5.00	50	0	117	82 - 127				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: R471581 ( 0 )		Instrument: VOA9			Method: VOLATILES					
LCS	Sample ID: VLCSW-240709	Units: ug/L			Analysis Date: 09-Jul-2024 11:17					
Client ID:	Run ID: VOA9_471581	SeqNo: 8130544		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.05	5.00	20	0	95.3	70 - 130				
1,1,2,2-Tetrachloroethane	18.57	5.00	20	0	92.9	70 - 120				
1,1,2-Trichloroethane	18.92	5.00	20	0	94.6	77 - 113				
1,1-Dichloroethane	16.87	5.00	20	0	84.3	71 - 122				
1,1-Dichloroethene	19.33	5.00	20	0	96.7	70 - 130				
1,2-Dibromoethane	19.34	5.00	20	0	96.7	76 - 123				
1,2-Dichlorobenzene	18.55	5.00	20	0	92.7	77 - 113				
1,2-Dichloroethane	16.77	5.00	20	0	83.8	70 - 124				
1,2-Dichloropropane	18.42	5.00	20	0	92.1	72 - 119				
1,3-Dichlorobenzene	18.55	5.00	20	0	92.7	78 - 118				
1,4-Dichlorobenzene	18.55	5.00	20	0	92.7	79 - 113				
2-Butanone	28.55	10.0	40	0	71.4	70 - 130				
2-Chloroethyl vinyl ether	34.61	10.0	40	0	86.5	60 - 135				
Acrolein	33.19	20.0	40	0	83.0	70 - 130				
Acrylonitrile	42.54	10.0	40	0	106	70 - 130				
Benzene	17.73	5.00	20	0	88.6	74 - 120				
Bromodichloromethane	18.72	5.00	20	0	93.6	74 - 122				
Bromoform	18.65	5.00	20	0	93.3	73 - 128				
Bromomethane	25.27	5.00	20	0	126	70 - 130				
Carbon tetrachloride	18.82	5.00	20	0	94.1	71 - 125				
Chlorobenzene	19.73	5.00	20	0	98.7	76 - 113				
Chloroethane	16.65	5.00	20	0	83.2	70 - 130				
Chloroform	18	5.00	20	0	90.0	71 - 121				
Chloromethane	14.5	5.00	20	0	72.5	70 - 129				
cis-1,3-Dichloropropene	18.08	5.00	20	0	90.4	73 - 127				
Dibromochloromethane	19.56	5.00	20	0	97.8	77 - 122				
Ethylbenzene	21.16	5.00	20	0	106	77 - 117				
m,p-Xylene	39.12	10.0	40	0	97.8	77 - 122				
Methylene chloride	15.07	10.0	20	0	75.3	70 - 127				
Naphthalene	19.37	5.00	20	0	96.9	70 - 130				
o-Xylene	19.62	5.00	20	0	98.1	75 - 119				
Tetrachloroethene	20.12	5.00	20	0	101	76 - 119				
Toluene	20.48	5.00	20	0	102	77 - 118				
trans-1,2-Dichloroethene	18.8	5.00	20	0	94.0	72 - 127				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: R471581 ( 0 )		Instrument: VOA9		Method: VOLATILES						
LCS	Sample ID: VLCSW-240709	Units: ug/L			Analysis Date: 09-Jul-2024 11:17					
Client ID:	Run ID: VOA9_471581	SeqNo: 8130544		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	18.37	5.00	20	0	91.9	77 - 119				
Trichloroethene	20.48	5.00	20	0	102	79 - 120				
Vinyl chloride	18.47	2.00	20	0	92.4	70 - 130				
1,3-Dichloropropene, Total	36.45	5.00	40	0	91.1	70 - 130				
Xylenes, Total	58.74	5.00	60	0	97.9	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>53.11</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>106</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>60.42</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>121</i>	<i>83 - 122</i>				
<i>Surr: Dibromofluoromethane</i>	<i>55.98</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>112</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>58.85</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>118</i>	<i>81 - 119</i>				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: R471581 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MS	Sample ID: HS24070194-01MS	Units: ug/L			Analysis Date: 09-Jul-2024 20:21					
Client ID:	Run ID: VOA9_471581	SeqNo: 8130549	PrepDate:	DF: 5000						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	79090	25000	100000	0	79.1	70 - 130				
1,1,2,2-Tetrachloroethane	73930	25000	100000	0	73.9	70 - 123				
1,1,2-Trichloroethane	73450	25000	100000	0	73.4	70 - 117				
1,1-Dichloroethane	72160	25000	100000	0	72.2	70 - 127				
1,1-Dichloroethene	82840	25000	100000	0	82.8	70 - 130				
1,2-Dibromoethane	76550	25000	100000	0	76.6	70 - 124				
1,2-Dichlorobenzene	72040	25000	100000	0	72.0	70 - 115				
1,2-Dichloroethane	66580	25000	100000	1941	64.6	70 - 127				S
1,2-Dichloropropane	71940	25000	100000	206700	-135	70 - 122				S
1,3-Dichlorobenzene	72040	25000	100000	0	72.0	70 - 119				
1,4-Dichlorobenzene	72040	25000	100000	0	72.0	70 - 114				
2-Butanone	123300	50000	200000	0	61.7	70 - 130				S
2-Chloroethyl vinyl ether	136400	50000	200000	0	68.2	65 - 135				
Acrolein	123000	100000	200000	0	61.5	70 - 130				S
Acrylonitrile	500300	50000	200000	395100	52.6	70 - 130				S
Benzene	75400	25000	100000	937.3	74.5	70 - 127				
Bromodichloromethane	74650	25000	100000	0	74.7	70 - 124				
Bromoform	73860	25000	100000	0	73.9	70 - 129				
Bromomethane	106200	25000	100000	7245	99.0	70 - 130				
Carbon tetrachloride	80490	25000	100000	61970	18.5	70 - 130				S
Chlorobenzene	78150	25000	100000	0	78.1	70 - 114				
Chloroethane	75150	25000	100000	3478	71.7	70 - 130				
Chloroform	74370	25000	100000	0	74.4	70 - 125				
Chloromethane	52870	25000	100000	2345	50.5	70 - 130				S
cis-1,3-Dichloropropene	70460	25000	100000	0	70.5	70 - 125				
Dibromochloromethane	73610	25000	100000	0	73.6	70 - 124				
Ethylbenzene	85620	25000	100000	0	85.6	70 - 124				
m,p-Xylene	162300	50000	200000	0	81.2	70 - 130				
Methylene chloride	50770	50000	100000	0	50.8	70 - 128				S
Naphthalene	71090	25000	100000	15530	55.6	70 - 130				S
o-Xylene	79210	25000	100000	0	79.2	70 - 124				
Tetrachloroethene	83320	25000	100000	0	83.3	70 - 130				
Toluene	83850	25000	100000	0	83.8	70 - 123				
trans-1,2-Dichloroethene	79750	25000	100000	0	79.8	70 - 130				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: R471581 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MS	Sample ID: HS24070194-01MS	Units: ug/L			Analysis Date: 09-Jul-2024 20:21					
Client ID:	Run ID: VOA9_471581	SeqNo: 8130549		PrepDate:		DF: 5000				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	71260	25000	100000	0	71.3	70 - 121				
Trichloroethene	85610	25000	100000	0	85.6	70 - 129				
Vinyl chloride	72140	10000	100000	25410	46.7	70 - 130				S
1,3-Dichloropropene, Total	141700	25000	200000	0	70.9	70 - 130				
Xylenes, Total	241500	25000	300000	0	80.5	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>263300</i>	<i>25000</i>	<i>250000</i>	<i>0</i>	<i>105</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>298300</i>	<i>25000</i>	<i>250000</i>	<i>0</i>	<i>119</i>	<i>82 - 124</i>				
<i>Surr: Dibromofluoromethane</i>	<i>283300</i>	<i>25000</i>	<i>250000</i>	<i>0</i>	<i>113</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>292800</i>	<i>25000</i>	<i>250000</i>	<i>0</i>	<i>117</i>	<i>82 - 127</i>				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: R471581 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MSD	Sample ID: HS24070194-01MSD	Units: ug/L			Analysis Date: 09-Jul-2024 20:43					
Client ID:	Run ID: VOA9_471581	SeqNo: 8130550	PrepDate:	DF: 5000						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	76700	25000	100000	0	76.7	70 - 130	79090	3.07	20	
1,1,2,2-Tetrachloroethane	72340	25000	100000	0	72.3	70 - 123	73930	2.19	20	
1,1,2-Trichloroethane	72320	25000	100000	0	72.3	70 - 117	73450	1.55	20	
1,1-Dichloroethane	69910	25000	100000	0	69.9	70 - 127	72160	3.17	20	S
1,1-Dichloroethene	78400	25000	100000	0	78.4	70 - 130	82840	5.51	20	
1,2-Dibromoethane	76810	25000	100000	0	76.8	70 - 124	76550	0.33	20	
1,2-Dichlorobenzene	70940	25000	100000	0	70.9	70 - 115	72040	1.54	20	
1,2-Dichloroethane	67590	25000	100000	1941	65.6	70 - 127	66580	1.5	20	S
1,2-Dichloropropane	70910	25000	100000	206700	-136	70 - 122	71940	1.44	20	S
1,3-Dichlorobenzene	70940	25000	100000	0	70.9	70 - 119	72040	1.54	20	
1,4-Dichlorobenzene	70940	25000	100000	0	70.9	70 - 114	72040	1.54	20	
2-Butanone	119100	50000	200000	0	59.5	70 - 130	123300	3.5	20	S
2-Chloroethyl vinyl ether	129000	50000	200000	0	64.5	65 - 135	136400	5.54	20	S
Acrolein	130300	100000	200000	0	65.1	70 - 130	123000	5.76	20	S
Acrylonitrile	492100	50000	200000	395100	48.5	70 - 130	500300	1.65	20	S
Benzene	72910	25000	100000	937.3	72.0	70 - 127	75400	3.36	20	
Bromodichloromethane	72600	25000	100000	0	72.6	70 - 124	74650	2.79	20	
Bromoform	74040	25000	100000	0	74.0	70 - 129	73860	0.245	20	
Bromomethane	104900	25000	100000	7245	97.6	70 - 130	106200	1.26	20	
Carbon tetrachloride	78120	25000	100000	61970	16.1	70 - 130	80490	2.99	20	S
Chlorobenzene	76980	25000	100000	0	77.0	70 - 114	78150	1.51	20	
Chloroethane	80620	25000	100000	3478	77.1	70 - 130	75150	7.02	20	
Chloroform	72150	25000	100000	0	72.2	70 - 125	74370	3.02	20	
Chloromethane	51490	25000	100000	2345	49.1	70 - 130	52870	2.65	20	S
cis-1,3-Dichloropropene	69550	25000	100000	0	69.5	70 - 125	70460	1.31	20	S
Dibromochloromethane	72660	25000	100000	0	72.7	70 - 124	73610	1.3	20	
Ethylbenzene	85130	25000	100000	0	85.1	70 - 124	85620	0.574	20	
m,p-Xylene	159400	50000	200000	0	79.7	70 - 130	162300	1.82	20	
Methylene chloride	49800	50000	100000	0	49.8	70 - 128	50770	0	20	JS
Naphthalene	73550	25000	100000	15530	58.0	70 - 130	71090	3.4	20	S
o-Xylene	77350	25000	100000	0	77.3	70 - 124	79210	2.38	20	
Tetrachloroethene	80760	25000	100000	0	80.8	70 - 130	83320	3.12	20	
Toluene	81740	25000	100000	0	81.7	70 - 123	83850	2.54	20	
trans-1,2-Dichloroethene	75360	25000	100000	0	75.4	70 - 130	79750	5.66	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: R471581 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MSD	Sample ID: HS24070194-01MSD	Units: ug/L			Analysis Date: 09-Jul-2024 20:43					
Client ID:	Run ID: VOA9_471581	SeqNo: 8130550		PrepDate:		DF: 5000				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	71300	25000	100000	0	71.3	70 - 121	71260	0.0563	20	
Trichloroethene	81490	25000	100000	0	81.5	70 - 129	85610	4.93	20	
Vinyl chloride	67510	10000	100000	25410	42.1	70 - 130	72140	6.62	20	S
1,3-Dichloropropene, Total	140900	25000	200000	0	70.4	70 - 130	141700	0.618	30	
Xylenes, Total	236700	25000	300000	0	78.9	70 - 130	241500	2	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>259700</i>	<i>25000</i>	<i>250000</i>	<i>0</i>	<i>104</i>	<i>70 - 126</i>	<i>263300</i>	<i>1.41</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>294900</i>	<i>25000</i>	<i>250000</i>	<i>0</i>	<i>118</i>	<i>82 - 124</i>	<i>298300</i>	<i>1.15</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>275000</i>	<i>25000</i>	<i>250000</i>	<i>0</i>	<i>110</i>	<i>77 - 123</i>	<i>283300</i>	<i>2.98</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>288300</i>	<i>25000</i>	<i>250000</i>	<i>0</i>	<i>115</i>	<i>82 - 127</i>	<i>292800</i>	<i>1.58</i>	<i>20</i>	

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

<b>Batch ID:</b> 214560 ( 0 )	<b>Instrument:</b> Skalar 02	<b>Method:</b> CBOD BY SM5210B-2011
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<b>MBLK</b>	Sample ID: <b>MBLK-214560</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 12:54</b>							
Client ID:	Run ID: <b>Skalar 02_471572</b>	SeqNo: <b>8130345</b>	PrepDate: <b>05-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	U	2.00								

<b>LCS</b>	Sample ID: <b>LCS-214560</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 12:54</b>							
Client ID:	Run ID: <b>Skalar 02_471572</b>	SeqNo: <b>8130344</b>	PrepDate: <b>05-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	185.6	2.00	198	0	93.7	84.6 - 115.4				

<b>DUP</b>	Sample ID: <b>HS24070269-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 12:54</b>							
Client ID:	Run ID: <b>Skalar 02_471572</b>	SeqNo: <b>8130343</b>	PrepDate: <b>05-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	4.65	2.00					4.53	2.61	20	

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** 214561 ( 0 )      **Instrument:** Skalar 02      **Method:** BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011

<b>MBLK</b>	Sample ID: <b>MBLK-214561</b>	Units: <b>mg/L</b>			Analysis Date: <b>10-Jul-2024 13:00</b>				
Client ID:		Run ID: <b>Skalar 02_471573</b>	SeqNo: <b>8130376</b>	PrepDate: <b>05-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Biochemical Oxygen Demand      U      2.00

<b>LCS</b>	Sample ID: <b>LCS-214561</b>	Units: <b>mg/L</b>			Analysis Date: <b>10-Jul-2024 13:00</b>				
Client ID:		Run ID: <b>Skalar 02_471573</b>	SeqNo: <b>8130375</b>	PrepDate: <b>05-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Biochemical Oxygen Demand      179      2.00      198      0      90.4 84.6 - 115.4

<b>DUP</b>	Sample ID: <b>HS24070196-01DUP</b>	Units: <b>mg/L</b>			Analysis Date: <b>10-Jul-2024 13:00</b>				
Client ID:		Run ID: <b>Skalar 02_471573</b>	SeqNo: <b>8130374</b>	PrepDate: <b>05-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Biochemical Oxygen Demand      U      2.00                          0.7      0 20

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

<b>Batch ID:</b> 214777 ( 0 )	<b>Instrument:</b> UV-2450	<b>Method:</b> PHOSPHORUS BY E365.3-1978
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<b>MBLK</b>	Sample ID: <b>MBLK-214777</b>	Units: <b>mg/L</b>	Analysis Date: <b>12-Jul-2024 14:52</b>							
Client ID:	Run ID: <b>UV-2450_471833</b>	SeqNo: <b>8135504</b>	PrepDate: <b>12-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Phosphorus, Total (As P) U 0.0500

<b>LCS</b>	Sample ID: <b>LCS-214777</b>	Units: <b>mg/L</b>	Analysis Date: <b>12-Jul-2024 14:52</b>							
Client ID:	Run ID: <b>UV-2450_471833</b>	SeqNo: <b>8135503</b>	PrepDate: <b>12-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Phosphorus, Total (As P) 0.257 0.0500 0.25 0 103 80 - 120

<b>MS</b>	Sample ID: <b>HS24070420-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>12-Jul-2024 14:52</b>							
Client ID:	Run ID: <b>UV-2450_471833</b>	SeqNo: <b>8135501</b>	PrepDate: <b>12-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Phosphorus, Total (As P) 0.244 0.0500 0.25 0 97.6 80 - 120

<b>MSD</b>	Sample ID: <b>HS24070420-01MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>12-Jul-2024 14:52</b>							
Client ID:	Run ID: <b>UV-2450_471833</b>	SeqNo: <b>8135502</b>	PrepDate: <b>12-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Phosphorus, Total (As P) 0.259 0.0500 0.25 0 104 80 - 120 0.244 5.96 20

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** 214876 ( 0 )      **Instrument:** UV-2450      **Method:** AMMONIA AS N BY SM4500 NH3-B-F-2011

<b>MBLK</b>	Sample ID: <b>MBLK-214876</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Jul-2024 14:41</b>							
Client ID:	Run ID: <b>UV-2450_472057</b>	SeqNo: <b>8141756</b>	PrepDate: <b>15-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      U      0.050

<b>LCS</b>	Sample ID: <b>LCS-214876</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Jul-2024 14:41</b>							
Client ID:	Run ID: <b>UV-2450_472057</b>	SeqNo: <b>8141755</b>	PrepDate: <b>15-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      0.483      0.050      0.5      0      96.6      85 - 115

<b>MS</b>	Sample ID: <b>HS24070221-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Jul-2024 14:41</b>							
Client ID:	Run ID: <b>UV-2450_472057</b>	SeqNo: <b>8141753</b>	PrepDate: <b>15-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      0.668      0.050      0.5      0.195      94.6      80 - 120

<b>MS</b>	Sample ID: <b>HS24070172-03MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Jul-2024 14:41</b>							
Client ID:	Run ID: <b>UV-2450_472057</b>	SeqNo: <b>8141767</b>	PrepDate: <b>15-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      0.46      0.050      0.5      0.005      91.0      80 - 120

<b>MSD</b>	Sample ID: <b>HS24070221-01MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Jul-2024 14:41</b>							
Client ID:	Run ID: <b>UV-2450_472057</b>	SeqNo: <b>8141754</b>	PrepDate: <b>15-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      0.642      0.050      0.5      0.195      89.4      80 - 120      0.668      3.97      20

<b>MSD</b>	Sample ID: <b>HS24070172-03MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>16-Jul-2024 14:41</b>							
Client ID:	Run ID: <b>UV-2450_472057</b>	SeqNo: <b>8141766</b>	PrepDate: <b>15-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      0.484      0.050      0.5      0.005      95.8      80 - 120      0.46      5.08      20

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

<b>Batch ID:</b> 215031 ( 0 )	<b>Instrument:</b> WetChem_HS	<b>Method:</b> TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011
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<b>MBLK</b>	Sample ID: <b>MBLK-215031</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Jul-2024 14:30</b>							
Client ID:	Run ID: <b>WetChem_HS_472306</b>	SeqNo: <b>8147254</b>	PrepDate: <b>19-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl U 0.50

<b>LCS</b>	Sample ID: <b>LCS-215031</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Jul-2024 14:30</b>							
Client ID:	Run ID: <b>WetChem_HS_472306</b>	SeqNo: <b>8147253</b>	PrepDate: <b>19-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl 20.27 0.50 20 0 101 85 - 115

<b>MS</b>	Sample ID: <b>HS24070254-11MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Jul-2024 14:30</b>							
Client ID:	Run ID: <b>WetChem_HS_472306</b>	SeqNo: <b>8147251</b>	PrepDate: <b>19-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl 20.75 0.50 20 0.972 98.9 75 - 125

<b>MSD</b>	Sample ID: <b>HS24070254-11MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Jul-2024 14:30</b>							
Client ID:	Run ID: <b>WetChem_HS_472306</b>	SeqNo: <b>8147252</b>	PrepDate: <b>19-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Total Kjeldahl 20.86 0.50 20 0.972 99.4 75 - 125 20.75 0.5 20

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** R471354 ( 0 )      **Instrument:** Skalar 02      **Method:** DISSOLVED OXYGEN BY SM4500-O G

<b>DUP</b>	Sample ID: <b>HS24070259-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>05-Jul-2024 17:57</b>							
Client ID: <b>SB-57</b>	Run ID: <b>Skalar 02_471354</b>	SeqNo: <b>8125958</b>	PrepDate:      DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oxygen, Dissolved	U	1.00					0.67		0	20
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The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** R471356 ( 0 )      **Instrument:** UV-2450      **Method:** HEXAVALENT CHROMIUM BY SW7196A

<b>MBLK</b>	Sample ID: <b>MBLK-R471356</b>	Units: <b>mg/L</b>			Analysis Date: <b>05-Jul-2024 14:00</b>				
Client ID:		Run ID: <b>UV-2450_471356</b>		SeqNo: <b>8126148</b>	PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Chromium, Hexavalent      U      0.0100

<b>LCS</b>	Sample ID: <b>LCS-R471356</b>	Units: <b>mg/L</b>			Analysis Date: <b>05-Jul-2024 14:00</b>				
Client ID:		Run ID: <b>UV-2450_471356</b>		SeqNo: <b>8126147</b>	PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Chromium, Hexavalent      0.258      0.0100      0.25      0      103      80 - 120

<b>MS</b>	Sample ID: <b>HS24070259-01MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>05-Jul-2024 14:00</b>				
Client ID: <b>SB-57</b>		Run ID: <b>UV-2450_471356</b>		SeqNo: <b>8126150</b>	PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Chromium, Hexavalent      0.25      0.0100      0.25      0.012      95.2      86 - 117

<b>MSD</b>	Sample ID: <b>HS24070259-01MSD</b>	Units: <b>mg/L</b>			Analysis Date: <b>05-Jul-2024 14:00</b>				
Client ID: <b>SB-57</b>		Run ID: <b>UV-2450_471356</b>		SeqNo: <b>8126149</b>	PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Chromium, Hexavalent      0.238      0.0100      0.25      0.012      90.4      86 - 117      0.25      4.92      15

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: R471379 ( 0 )		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
<b>MBLK</b>	Sample ID: <b>MBLK</b>	Units: <b>mg/L</b>			Analysis Date: <b>05-Jul-2024 10:54</b>					
Client ID:		Run ID: <b>ICS-Integrion_471379</b>	SeqNo: <b>8126676</b>	PrepDate:	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Bromide	U	0.100								
Chloride	U	0.500								
Fluoride	U	0.100								
Nitrogen, Nitrate (As N)	U	0.100								
Sulfate	U	0.500								
<b>LCS</b>	Sample ID: <b>LCS</b>	Units: <b>mg/L</b>			Analysis Date: <b>05-Jul-2024 11:18</b>					
Client ID:		Run ID: <b>ICS-Integrion_471379</b>	SeqNo: <b>8126679</b>	PrepDate:	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Bromide	4.079	0.100	4	0	102	90 - 110				
Chloride	20.72	0.500	20	0	104	90 - 110				
Fluoride	4.352	0.100	4	0	109	90 - 110				
Nitrogen, Nitrate (As N)	4.081	0.100	4	0	102	90 - 110				
Sulfate	21.83	0.500	20	0	109	90 - 110				
<b>MS</b>	Sample ID: <b>HS24070259-01MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>05-Jul-2024 17:30</b>					
Client ID: <b>SB-57</b>		Run ID: <b>ICS-Integrion_471379</b>	SeqNo: <b>8126689</b>	PrepDate:	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Bromide	2.58	0.100	2	0.6543	96.3	80 - 120				
Chloride	52.28	0.500	10	43.34	89.4	80 - 120			O	
Fluoride	2.027	0.100	2	0.3728	82.7	80 - 120				
Nitrogen, Nitrate (As N)	1.892	0.100	2	0	94.6	80 - 120				
Sulfate	9.61	0.500	10	0	96.1	80 - 120				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** R471379 ( 0 )      **Instrument:** ICS-Integrion      **Method:** ANIONS BY E300.0, REV 2.1, 1993

<b>MSD</b>		Sample ID: <b>HS24070259-01MSD</b>		Units: <b>mg/L</b>		Analysis Date: <b>05-Jul-2024 17:36</b>				
Client ID: <b>SB-57</b>		Run ID: <b>ICS-Integrion_471379</b>		SeqNo: <b>8126690</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.639	0.100	2	0.6543	99.2	80 - 120	2.58	2.26	20	
Chloride	52.33	0.500	10	43.34	89.9	80 - 120	52.28	0.0975	20	O
Fluoride	2.057	0.100	2	0.3728	84.2	80 - 120	2.027	1.46	20	
Nitrogen, Nitrate (As N)	1.896	0.100	2	0	94.8	80 - 120	1.892	0.227	20	
Sulfate	9.75	0.500	10	0	97.5	80 - 120	9.61	1.44	20	

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

<b>Batch ID:</b> R471599 ( 0 )	<b>Instrument:</b> Skalar 03	<b>Method:</b> ALKALINITY BY -2011
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<b>MBLK</b>	Sample ID: <b>MBLK-0102024</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 11:52</b>							
Client ID:	Run ID: <b>Skalar 03_471599</b>	SeqNo: <b>8130803</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) U 5.00

<b>LCS</b>	Sample ID: <b>LCS-07102024</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 11:58</b>							
Client ID:	Run ID: <b>Skalar 03_471599</b>	SeqNo: <b>8130804</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 957.5 5.00 1000 0 95.8 85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-07102024</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 12:04</b>							
Client ID:	Run ID: <b>Skalar 03_471599</b>	SeqNo: <b>8130805</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 963.2 5.00 1000 0 96.3 85 - 115 957.5 0.594 20

<b>DUP</b>	Sample ID: <b>HS24070172-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>10-Jul-2024 12:24</b>							
Client ID:	Run ID: <b>Skalar 03_471599</b>	SeqNo: <b>8130809</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 119 5.00 115.4 3.07 20

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

<b>Batch ID:</b> R471601 ( 0 )		<b>Instrument:</b> Balance1		<b>Method:</b> TOTAL DISSOLVED SOLIDS BY SM2540C-2011					
<b>MBLK</b>	Sample ID: <b>WMBLK-07102024</b>	Units: <b>mg/L</b>		Analysis Date: <b>10-Jul-2024 08:30</b>					
Client ID:	Run ID: <b>Balance1_471601</b>	SeqNo: <b>8130844</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) U 10.0

<b>LCS</b>	Sample ID: <b>WLCS-07102024</b>	Units: <b>mg/L</b>		Analysis Date: <b>10-Jul-2024 08:30</b>					
Client ID:	Run ID: <b>Balance1_471601</b>	SeqNo: <b>8130843</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 902 10.0 1000 0 90.2 85 - 115

<b>DUP</b>	Sample ID: <b>HS24070371-04 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>10-Jul-2024 08:30</b>					
Client ID:	Run ID: <b>Balance1_471601</b>	SeqNo: <b>8130842</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 860 10.0 848 1.41 20

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID:	R471720 ( 0 )	Instrument:	Balance1	Method:	TOTAL SUSPENDED SOLIDS BY SM 2540D-2011					
<b>MBLK</b>	Sample ID: <b>WMBLK-07112024</b>	Units: <b>mg/L</b>		Analysis Date: <b>11-Jul-2024 10:30</b>						
Client ID:	Run ID: <b>Balance1_471720</b>	SeqNo: <b>8133112</b>		PrepDate:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Suspended Solids (Residue, Non-Filterable)	U	2.50								
<b>LCS</b>	Sample ID: <b>WLCS-07112024</b>	Units: <b>mg/L</b>		Analysis Date: <b>11-Jul-2024 10:30</b>						
Client ID:	Run ID: <b>Balance1_471720</b>	SeqNo: <b>8133111</b>		PrepDate:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Suspended Solids (Residue, Non-Filterable)	98	2.50	100	0	98.0	85 - 115				
<b>DUP</b>	Sample ID: <b>HS24070357-02 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>11-Jul-2024 10:30</b>						
Client ID:	Run ID: <b>Balance1_471720</b>	SeqNo: <b>8133103</b>		PrepDate:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Suspended Solids (Residue, Non-Filterable)	18.67	2.50					20	6.9	20	
<b>DUP</b>	Sample ID: <b>HS24070249-01 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>11-Jul-2024 10:30</b>						
Client ID:	Run ID: <b>Balance1_471720</b>	SeqNo: <b>8133090</b>		PrepDate:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Suspended Solids (Residue, Non-Filterable)	92	2.50					89.67	2.57	20	

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** R471818 ( 0 )      **Instrument:** WetChem\_HS      **Method:** PH BY SM4500H+ B-2011

**DUP**      Sample ID: **HS24070414-01DUP**      Units: **pH Units**      Analysis Date: **12-Jul-2024 14:29**  
Client ID:      Run ID: **WetChem\_HS\_471818** SeqNo: **8135292**      PrepDate:      DF: **1**  
Analyte      Result      PQL      SPK Val      SPK Ref Value      %REC      Control Limit      RPD Ref Value      %RPD      RPD Limit Qual

pH	6.96	0.100						7	0.573	10
Temp Deg C @pH	20.6	0						20.5	0.487	10

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

Batch ID: R472131 ( 0 )		Instrument: WetChem_HS		Method: RESIDUAL CHLORINE BY SM4500CL F-2011						
<b>MBLK</b>	Sample ID: <b>MBLK-R472131</b>	Units: <b>mg/L</b>			Analysis Date: <b>17-Jul-2024 14:21</b>					
Client ID:	Run ID: <b>WetChem_HS_472131</b>	SeqNo: <b>8143493</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	U	0.10								
<b>LCS</b>	Sample ID: <b>LCS-R472131</b>	Units: <b>mg/L</b>			Analysis Date: <b>17-Jul-2024 14:21</b>					
Client ID:	Run ID: <b>WetChem_HS_472131</b>	SeqNo: <b>8143492</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	3.5	0.10	3.12	0	112	85 - 115				
<b>LCSD</b>	Sample ID: <b>LCSD-R472131</b>	Units: <b>mg/L</b>			Analysis Date: <b>17-Jul-2024 14:21</b>					
Client ID:	Run ID: <b>WetChem_HS_472131</b>	SeqNo: <b>8143491</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	3.5	0.10	3.12	0	112	85 - 115	3.5	0	20	
<b>MS</b>	Sample ID: <b>HS24070558-01MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>17-Jul-2024 14:21</b>					
Client ID:	Run ID: <b>WetChem_HS_472131</b>	SeqNo: <b>8143494</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chlorine	3.5	0.10	3.12	0	112	80 - 120				

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** R472176 ( 0 )      **Instrument:** TOC\_04      **Method:** TOTAL ORGANIC CARBON BY SW9060A

<b>MBLK</b>	Sample ID: <b>MBLK-07172024</b>	Units: <b>mg/L</b>			Analysis Date: <b>17-Jul-2024 16:28</b>				
Client ID:	Run ID: <b>TOC_04_472176</b>	SeqNo: <b>8144420</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      U      1.00

<b>LCS</b>	Sample ID: <b>LCS-07172024</b>	Units: <b>mg/L</b>			Analysis Date: <b>17-Jul-2024 16:41</b>				
Client ID:	Run ID: <b>TOC_04_472176</b>	SeqNo: <b>8144421</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      9.585      1.00      10      0      95.8      85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-07172024</b>	Units: <b>mg/L</b>			Analysis Date: <b>17-Jul-2024 16:54</b>				
Client ID:	Run ID: <b>TOC_04_472176</b>	SeqNo: <b>8144422</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      9.613      1.00      10      0      96.1      85 - 115      9.585      0.292      20

<b>MS</b>	Sample ID: <b>HS24070493-10MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>17-Jul-2024 22:55</b>				
Client ID:	Run ID: <b>TOC_04_472176</b>	SeqNo: <b>8144434</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      14.22      1.00      10      5.179      90.4      80 - 120

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

**Batch ID:** R472273 ( 0 )      **Instrument:** WetChem\_HS      **Method:** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993

<b>MBLK</b>	Sample ID: <b>MBLK-R472273</b>	Units: <b>mg/L</b>				Analysis Date: <b>18-Jul-2024 15:30</b>				
Client ID:	Run ID: <b>WetChem_HS_472273</b>	SeqNo: <b>8146369</b>	PrepDate:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      U      15.0

<b>LCS</b>	Sample ID: <b>LCS-R472273</b>	Units: <b>mg/L</b>				Analysis Date: <b>18-Jul-2024 15:30</b>				
Client ID:	Run ID: <b>WetChem_HS_472273</b>	SeqNo: <b>8146368</b>	PrepDate:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      100      15.0      100      0      100      85 - 115

<b>MS</b>	Sample ID: <b>HS24070280-02MS</b>	Units: <b>mg/L</b>				Analysis Date: <b>18-Jul-2024 15:30</b>				
Client ID:	Run ID: <b>WetChem_HS_472273</b>	SeqNo: <b>8146371</b>	PrepDate:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      60      15.0      50      11      98.0      80 - 120

<b>MSD</b>	Sample ID: <b>HS24070280-02MSD</b>	Units: <b>mg/L</b>				Analysis Date: <b>18-Jul-2024 15:30</b>				
Client ID:	Run ID: <b>WetChem_HS_472273</b>	SeqNo: <b>8146370</b>	PrepDate:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      60      15.0      50      11      98.0      80 - 120      60      0 20

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QC BATCH REPORT**

<b>Batch ID:</b> R472356 ( 0 )	<b>Instrument:</b> Balance1	<b>Method:</b> OIL & GREASE (HEM) BY E1664A
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<b>MBLK</b>	Sample ID: <b>WMBLK-07192024</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_472356</b>	SeqNo: <b>8148353</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease U 2.00

<b>LCS</b>	Sample ID: <b>LCS-07192024</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_472356</b>	SeqNo: <b>8148351</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 40.1 2.00 40 0 100 78 - 114

<b>LCSD</b>	Sample ID: <b>LCSD-07192024</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_472356</b>	SeqNo: <b>8148352</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 42.9 2.00 40 0 107 78 - 114 40.1 6.75 18

<b>MS</b>	Sample ID: <b>HS24070423-04MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>19-Jul-2024 07:00</b>							
Client ID:	Run ID: <b>Balance1_472356</b>	SeqNo: <b>8148334</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 44.4 2.00 40 1.132 108 78 - 114

The following samples were analyzed in this batch: HS24070259-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070259

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

<b>Acronym</b>	<b>Description</b>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

<b>Agency</b>	<b>Number</b>	<b>Expire Date</b>
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

Sample Receipt Checklist

Work Order ID: HS24070259

Date/Time Received: 05-Jul-2024 11:55

Client Name: SKA

Received by: Monica Smith

Completed By: /S/ <u>Monica Smith</u>	05-Jul-2024 14:05	Reviewed by: /S/ <u>sebastian.lugo</u>	05-Jul-2024 20:54
eSignature	Date/Time	eSignature	Date/Time

Matrices: water

Carrier name: Client

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes  No  Not Present
- Chain of custody present? Yes  No  1 Page(s)
- Chain of custody signed when relinquished and received? Yes  No  COC IDs:319997
- Samplers name present on COC? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container/Temp Blank temperature in compliance? Yes  No

Temperature(s)/Thermometer(s):	0.4 uc/0.8 c	IR31
Cooler(s)/Kit(s):	Red	
Date/Time sample(s) sent to storage:	07/05/2024 1407	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



Cincinnati, OH  
+1 513 733 5336

Fort Collins, CO  
+1 970 490 1511

Everett, WA  
+1 425 356 2600

Holland, MI  
+1 616 399 6070

# Chain of Custody Form

Page 1 of 1

COC ID: 319997

HS24070259

SKA Consulting, L.P.  
Doty Wastewater Permit



ALS Project Manager:

Customer Information		Project Information		ALS Project Manager:	
Purchase Order	5019-0003	Project Name	Doty Wastewater Permit	A	624_Wdump (VOA 624, 7 day HT)
Work Order		Project Number		B	625_Wdump (SVOA 625/Perit/PCB)
Company Name	SKA Consulting, L.P.	Bill To Company	SKA Consulting, L.P.	C	200.8 Low (Special List)
Send Report To	Mike Schultz	Invoice Attn	Rebecca Fonseca - AP	D	300_W (Cl, NO3 F, SO4, Br, ALK, Res-d/TDS, pH)
Address	1888 Stebbins Drive Suite 100	Address	1888 Stebbins Drive Suite 100	E	BOD 5210B (BOD/CBOD/Diss Oxy/CP +6/CP+3)
				F	COD (COD/TON/T-Phos/TOC)
City/State/Zip	Houston, TX 77043	City/State/Zip	Houston TX 77043	G	O&G_1664_W_HS (O&G)
Phone	(713) 266-6056	Phone	(713) 266-6056	H	TSS_W 2540D (TSS)
Fax	(713) 266-0995	Fax	(713) 266-0995	I	SUB_Available Cyanide (ALS Holland)
e-Mail Address	mike.schultz@skaconsulting.com	e-Mail Address	rebecca.fonseca@skaconsulting.com	J	Sub_Mercury Low (ALS Holland)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-57	7-5-24	10:30	W		25	X	X	X	X	X	X	X	X	X	X	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

ME

(NO DUP, NO FIELD BLANK)

Sampler(s) Please Print & Sign <i>Rebecca Fonseca</i>		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:	
Relinquished by: <i>Rebecca Fonseca</i>		Date: 7-5-24	Time: 1155	Received by:		Notes: SKA Doty Wastewater Permit			
Relinquished by:		Date: 7-5-24	Time: 1155	Received by (Laboratory): <i>[Signature]</i>		Cooler ID: Red	Cooler Temp.: 0.4	QC Package: (Check One Box Below)	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		<i>CFIA</i>	<i>DA3</i>	<input checked="" type="checkbox"/> Level I Std. QP	<input type="checkbox"/> TTRP Checklist
Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other 8-4°C 9-5035								<input type="checkbox"/> Level II Std QP Raw Data	<input type="checkbox"/> TTRP Level IV
								<input type="checkbox"/> Level IV S/M/B/C/LP	
								<input type="checkbox"/> Other	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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**ALS**

10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

**CUSTODY SEAL**

Date: 7-5-24  
Name: Ryan R.  
Company: SEA

Time: 1155  
TAVILGAW

Seal Broken By:

Date:



right solutions.  
right partner.

July 18, 2024

Bernadette Fini  
ALS Environmental  
10450 Stancliff Rd  
Suite 210  
Houston, TX 77099

Work Order: **HN2404071**

Re: **HS24070259**

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

**Chelsey Cook**

**/S/ CHELSEY COOK**

**Project Manager**



# Narrative Documents



**Client:** ALS Environmental  
**Project:** HS24070259

**Work Order:** HN2404071  
**Date Received:** 12-Jul-2024

### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

#### **Sample Receipt**

1 water sample was received for analysis at ALS Environmental on 12-Jul-2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

# SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting limits.

For a full listing of sample results, continue to the Sample Results section of this Report.



**CLIENT ID: SB-57**

**Lab ID: HN2404071-001**

<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>	<b>Method</b>
Mercury	0.590		0.200	0.500	ng/L	EPA 1631E



## Sample Receipt Information

# SAMPLE SUMMARY



**Client:** ALS Environmental  
**Project:** HS24070259  
**Workorder:** HN2404071

<b>Laboratory Sample ID</b>	<b>Client Sample ID</b>	<b>Sample Matrix</b>	<b>Collection Date</b>	<b>Date Received</b>
HN2404071-001	SB-57	WATER	07/05/24 10:30	07/12/24 09:00



10450 Stancliff Rd, Ste 210  
 Houston, TX 77099  
**T:** +1 281 530 5656  
**F:** +1 281 530 5887  
**www.alsglobal.com**

## Subcontract Chain of Custody

**SAMPLING STATE:** Texas

**COC ID:** 26258

**SUBCONTRACT TO:**

ALS Group USA, Corp.  
 3352 - 128th Ave  
 Holland, MI 494249263

**Phone:** +1 616 399 6070

**CUSTOMER INFORMATION:**

**Company:** ALS Houston  
**Contact:** Bernadette A. Fini  
**Address:** 10450 Stancliff Rd, Ste 210  
**Phone:** +1 281 530 5656  
**Email:** Bernadette.fini@alsglobal.com  
**Alternate Contact:** Jumoke M. Lawal  
**Email:** jumoke.lawal@alsglobal.com

**INVOICE INFORMATION:**

**Company:** ALS Houston  
**Contact:** Accounts Payable  
**Address:** 10450 Stancliff Rd, Ste 210  
**Phone:** +1 281 530 5656  
**Reference:** HS24070259  
**TSR:** Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE

1.	HS24070259-01	SB-57	Water	05 Jul 2024 10:30
----	---------------	-------	-------	-------------------

SUB\_Available Cyanide  
 Sub\_MercuryLow

19 Jul Environmental Division  
 19 Jul Holland  
 Work Order Reference  
**HN2404071**

**Comments:** Please analyze for the analysis listed above.  
 Send report to the emails shown above.

**QC Level:** STD (Laboratory Standard QC: method blank and LCS required)



Telephone : +1 616 399 6070

Relinquished By: AM

Date/Time: 7/9/24 18:00

Received By: [Signature]

Date/Time: 7/12/24 9:00

Cooler ID(s): \_\_\_\_\_

Temperature(s): 4.5°C OF2

RIGHT SOLUTIONS | RIGHT PARTNER



# ALS Holland Sample Receiving Checklist

Received by:

Adrian

Date/Time:

7/12/24 900

Carrier Name:

Fedex

Shipping container/cooler in good condition?

Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No /  Not Present

Custody seals intact on sample bottles?

Yes / No /  Not Present

Chain of Custody present?

Yes / No

COC signed when relinquished and received?

Yes / No

COC agrees with sample labels?

Yes / No

Samples in proper container/bottle?

Yes / No

Sample containers intact?

Yes / No

Sufficient sample volume for indicated test?

Yes / No

All samples received within holding time?

Yes / No

Container/Temp Blank temperature in compliance?

Yes / No

Temperature(s) (°C):

4.5°C

Thermometer(s):

DF2

Sample(s) received on ice?

Yes / No

Matrix/Matrices:

Water

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

7/12/24 1155

Water – VOA vials have zero headspace?

Yes / No /  No Vials

Water – pH acceptable upon receipt?

Yes / No / N/A

pH strip lot #: 37

< 2 \_\_\_\_\_ > 12  Other ///

pH adjusted (note adjustments below)?

Yes /  No / N/A

pH adjusted by:

\_\_\_\_\_

Login Notes:



# Miscellaneous Forms

## REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
V	The Continuing Calibration Verification was outside of control criteria
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

### Holland Laboratory Certifications<sup>1</sup>

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	1/1/2024	12/31/2024
Colorado	UST		6/21/2024	6/30/2025
Connecticut	Drinking Water (Secondary)	PH-0155	1/23/2023	12/31/2024
Florida	NELAP (Primary)	E871106	7/1/2024	6/30/2025
Illinois	NELAP (Secondary)	200076	12/14/2023	12/31/2024
Indiana	Drinking Water (Secondary)	C-MI-08	4/4/2024	9/4/2026
Iowa	State Specific	403	9/18/2023	9/1/2025
Kansas	NELAP (Secondary)	E-10411	7/26/2023	7/31/2024
Kentucky	Waste Water	KY98004	12/5/2023	12/31/2024
Kentucky	UST	120474	6/24/24	6/30/2025
Michigan	Drinking Water (Primary)	0022	12/19/2023	9/4/2026
Minnesota	NELAP (Secondary)	026-999-449	12/29/2023	12/31/2024
New Jersey	NELAP (Secondary)	MI015	7/1/2024	6/30/2025
New York	Drinking Water (Secondary)	12128	3/29/2024	4/1/2025
North Dakota	State Specific	R-192	9/12/2023	6/30/2024
Ohio	Drinking Water (Secondary)	87783	7/1/2024	6/30/2025
Pennsylvania	NELAP (Secondary)	68-03827	6/14/2024	7/31/2025
Texas	NELAP (Secondary)	T104704494	2/1/2024	1/31/2025
USDA	Domestic CA	Soil-MI-007	8/21/2023	2/18/2025
USDA	Soil Import	P330-19-00039	3/3/2023	3/3/2026
West Virginia	State Specific	355	6/24/2024	8/31/2025
Wisconsin	State Specific	399084510	8/11/2023	8/31/2024

<sup>1</sup> - Scope available upon request

# ANALYST SUMMARY



**Client:** ALS Environmental  
**Project:** HS24070259

**Work Order:** HN2404071

---

**Sample Name:** SB-57  
**Laboratory Code:** HN2404071-001  
**Sample Matrix:** WATER

**Date Collected:** 07/05/24  
**Date Received:** 07/12/24

---

<b>Analysis Method</b>	<b>Preparation Lot</b>	<b>Prepared By</b>	<b>Analysis Lot</b>	<b>Analyzed By</b>
EPA 1631E	1548261	Amber Luke	2406837	Amber Luke
OIA 1677	1546509	Mike Burkall	2402605	Mike Burkall

---



# Sample Results



# Metals

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24070259/  
**Sample Matrix:** WATER  
**Sample Name:** SB-57  
**Laboratory Code:** HN2404071-001

**Work Order:** HN2404071  
**Date Collected:** 07/05/24 10:30  
**Date Received:** 07/12/24 09:00

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<b>0.590</b>	ng/L	0.500	1	07/17/24 21:46	07/16/24 23:06	



# General Chemistry

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24070259/  
**Sample Matrix:** WATER  
**Sample Name:** SB-57  
**Laboratory Code:** HN2404071-001

**Work Order:** HN2404071  
**Date Collected:** 07/05/24 10:30  
**Date Received:** 07/12/24 09:00

## General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	07/16/24 13:12	07/16/24 13:10	



# QC Summary Forms



# Metals

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24070259/  
**Sample Matrix:** WATER  
  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1548261-001

**Work Order:** HN2404071  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/17/24 18:15	07/16/24 23:07	

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24070259/  
**Sample Matrix:** WATER

**Work Order:** HN2404071  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Laboratory Code:** QC-1548261-002

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/17/24 19:10	07/16/24 23:07	

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24070259/  
**Sample Matrix:** WATER

**Work Order:** HN2404071  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Laboratory Code:** QC-1548261-003

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/17/24 20:04	07/16/24 23:07	

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24070259/  
**Sample Matrix:** WATER  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1548261-004

**Work Order:** HN2404071  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/17/24 20:59	07/16/24 23:07	

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070259  
**Sample Matrix:** WATER

**Work Order:** HN2404071  
**Date Analyzed:** 07/17/2024  
**Date Extracted:** 07/16/2024

## Laboratory Control Sample Summary

**Metals**  
**Mercury**

**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:** ng/L  
**Analysis Lab Lot:** 2406837

<b>Sample Name</b>	<b>Laboratory Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Laboratory Control Sample	QC-1548261-005	5.30	5	106	77-123

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070259  
**Sample Matrix:** WATER

**Work Order:**HN2404071  
**Date Analyzed:**07/17/2024  
**Date Extracted:**07/16/2024

## Laboratory Control Sample Summary

**Metals**  
**Mercury**

**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:**ng/L  
**Analysis Lab Lot:**2406837

<b>Sample Name</b>	<b>Laboratory Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Laboratory Control Sample	QC-1548261-006	4.98	5	99.6	77-123



# General Chemistry

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24070259/  
**Sample Matrix:** WATER  
  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1546509-001

**Work Order:** HN2404071  
**Date Collected:** NA  
**Date Received:** NA

## General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	07/16/24 13:13	07/16/24 13:11	

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070259  
**Sample Matrix:** WATER

**Work Order:** HN2404071  
**Date Analyzed:** 07/16/2024  
**Date Extracted:** 07/16/2024

## Laboratory Control Sample Summary General Chemistry Parameters Available Cyanide

**Analysis Method:** OIA 1677  
**Prep Method:** Method

**Units:** µg/L  
**Analysis Lab Lot:** 2402605

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1546509-002	44.0	50	87.9	82-132



right solutions.  
right partner.

---

10450 Stancliff Rd. Suite 210  
Houston, TX 77099  
T: +1 281 530 5656  
F: +1 281 530 5887

July 30, 2024

Mike Schultz  
SKA Consulting, L.P.  
1888 Stebbins Drive  
Suite 100  
Houston, TX 77043

Work Order: **HS24070558**

Laboratory Results for: **Doty Wastewater Permit**

Dear Mike Schultz,

ALS Environmental received 1 sample(s) on Jul 12, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Bernadette A. Fini  
Project Manager

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24070558

**SAMPLE SUMMARY**

---

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24070558-01	SB-57	Water		12-Jul-2024 10:40	12-Jul-2024 11:50	<input type="checkbox"/>

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24070558

**CASE NARRATIVE**

---

**Work Order Comments**

- Login Notes:  
Sample SB-57 for Metals the pH is more than 2(4) and it was preserved with 0.5ml HNO3 on 07/12/2024 at 1215 using acid Lot #324065308.  
Final pH (1)
- Sample received outside method holding time for pH, dissolved oxygen and residual chlorine. These are an immediate test. Sample results are flagged with an "H" qualifier.  
  
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.
- The analyses for low level mercury and available cyanide were subcontracted to ALS Environmental in Holland, MI. Final Report attached.

---

**ECD Organics by Method E608****Batch ID: 215055****Sample ID: MBLK-215055**

- Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

**Batch ID: 215055 (1)****Sample ID: LCSD-215055**

- The RPD between the LCS and LCSD was outside of the control limit. Multiple compounds

**Sample ID: MBLK-215055**

- Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

---

**GCMS Semivolatiles by Method E625****Batch ID: 214816****Sample ID: LCS-214816**

- on E flag for Pentachlorobenzene, upper limits for Pentachlorobenzene is 100 and it is spiked at 100. Pentachlorobenzene is still within %R limits in both LCS/LCSD and all samples are ND for this compound
- The LCS and/or LCSD recovery was above the upper control limit. All sample results in the batch were non-detect.): (4-Bromophenyl phenyl ether, Hexachlorobenzene)

**Sample ID: LCSD-214816**

- The RPD between the LCS and LCSD was outside of the control limit.

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24070558

**CASE NARRATIVE**

---

**GCMS Volatiles by Method E624**

**Batch ID: R471987**

**Sample ID: LCSDW-240715**

- Chloroethane failed outside control limits high. Associated samples are ND. The RPD for 2-Chloroethyl vinyl ether was outside QC limits.

**Sample ID: SB-57 (HS24070558-01)**

- Surrogates failed outside control limits high. Sample is ND.

**Sample ID: VLCSW-240715**

- Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

---

**Metals by Method Calculation**

**Batch ID: R472789**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**Metals by Method E200.8**

**Batch ID: 215038**

**Sample ID: HS24070521-01MS**

- MS and MSD are for an unrelated sample

---

**WetChemistry by Method SM4500H+ B**

**Batch ID: R472184**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method M4500-O G**

**Batch ID: R472568**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method E410.4**

**Batch ID: R472823**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method SM2320B**

**Batch ID: R472973**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

---

**WetChemistry by Method E1664A**

**Batch ID: R472827**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**Work Order:** HS24070558

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**CASE NARRATIVE**

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**WetChemistry by Method SW9060**

**Batch ID: R472600**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method M2540D**

**Batch ID: R472259**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SM4500CL F**

**Batch ID: R472131**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method M4500 NH3 D**

**Batch ID: 215190,R472985**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SW7196**

**Batch ID: R471778**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method M2540C**

**Batch ID: R472056**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method E300**

**Batch ID: R471869**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method E365.3**

**Batch ID: 215121**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SM4500 NH3-B-F**

**Batch ID: 215016**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
- 

**WetChemistry by Method SM5210 B**

**Batch ID: 214726,214792**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 12-Jul-2024 10:40

**ANALYTICAL REPORT**  
 WorkOrder:HS24070558  
 Lab ID:HS24070558-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
<b>VOLATILES</b>		<b>Method:E624</b>			Analyst: FT			
1,1,1-Trichloroethane	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
1,1,2,2-Tetrachloroethane	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
1,1,2-Trichloroethane	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
1,1-Dichloroethane	U		0.400	5.00	ug/L	1	15-Jul-2024 14:18	
1,1-Dichloroethene	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
1,2-Dibromoethane	U		0.400	5.00	ug/L	1	15-Jul-2024 14:18	
1,2-Dichlorobenzene	U		0.600	5.00	ug/L	1	15-Jul-2024 14:18	
1,2-Dichloroethane	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
1,2-Dichloropropane	U		0.700	5.00	ug/L	1	15-Jul-2024 14:18	
1,3-Dichlorobenzene	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
1,4-Dichlorobenzene	U		0.600	5.00	ug/L	1	15-Jul-2024 14:18	
2-Butanone	U		1.00	10.0	ug/L	1	15-Jul-2024 14:18	
2-Chloroethyl vinyl ether	U		1.30	10.0	ug/L	1	15-Jul-2024 14:18	
Acrolein	U		4.00	20.0	ug/L	1	15-Jul-2024 14:18	
Acrylonitrile	U		4.00	10.0	ug/L	1	15-Jul-2024 14:18	
Benzene	U		0.600	5.00	ug/L	1	15-Jul-2024 14:18	
Bromodichloromethane	U		0.600	5.00	ug/L	1	15-Jul-2024 14:18	
Bromoform	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
Bromomethane	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
Carbon tetrachloride	U		0.600	5.00	ug/L	1	15-Jul-2024 14:18	
Chlorobenzene	U		0.400	5.00	ug/L	1	15-Jul-2024 14:18	
Chloroethane	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
Chloroform	U		0.600	5.00	ug/L	1	15-Jul-2024 14:18	
Chloromethane	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
cis-1,3-Dichloropropene	U		0.600	5.00	ug/L	1	15-Jul-2024 14:18	
Dibromochloromethane	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
Ethylbenzene	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
m,p-Xylene	U		0.600	10.0	ug/L	1	15-Jul-2024 14:18	
Methylene chloride	U		1.00	10.0	ug/L	1	15-Jul-2024 14:18	
Naphthalene	U		0.700	5.00	ug/L	1	15-Jul-2024 14:18	
o-Xylene	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
Tetrachloroethene	U		0.600	5.00	ug/L	1	15-Jul-2024 14:18	
Toluene	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
trans-1,2-Dichloroethene	U		0.400	5.00	ug/L	1	15-Jul-2024 14:18	
trans-1,3-Dichloropropene	U		0.600	5.00	ug/L	1	15-Jul-2024 14:18	
Trichloroethene	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
Vinyl chloride	U		0.400	2.00	ug/L	1	15-Jul-2024 14:18	
Xylenes, Total	U		0.500	5.00	ug/L	1	15-Jul-2024 14:18	
1,3-Dichloropropene, Total	U		0.600	5.00	ug/L	1	15-Jul-2024 14:18	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
Project: Doty Wastewater Permit  
Sample ID: SB-57  
Collection Date: 12-Jul-2024 10:40

**ANALYTICAL REPORT**  
WorkOrder:HS24070558  
Lab ID:HS24070558-01  
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>VOLATILES</b>							Analyst: FT
	<b>Method:E624</b>						
Surr: 1,2-Dichloroethane-d4	137	S		70-126	%REC	1	15-Jul-2024 14:18
Surr: 4-Bromofluorobenzene	117			82-124	%REC	1	15-Jul-2024 14:18
Surr: Dibromofluoromethane	127	S		77-123	%REC	1	15-Jul-2024 14:18
Surr: Toluene-d8	125			82-127	%REC	1	15-Jul-2024 14:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 12-Jul-2024 10:40

**ANALYTICAL REPORT**  
 WorkOrder:HS24070558  
 Lab ID:HS24070558-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>SEMIVOLATILE</b>		<b>Method:E625</b>			Prep:E625 / 15-Jul-2024		Analyst: GEY
1,2,4,5-Tetrachlorobenzene	U		0.600	5.00	ug/L	1	17-Jul-2024 10:41
1,2,4-Trichlorobenzene	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
1,2-Diphenylhydrazine	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
2,4,5-Trichlorophenol	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
2,4,6-Trichlorophenol	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
2,4-Dichlorophenol	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
2,4-Dimethylphenol	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
2,4-Dinitrophenol	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
2,4-Dinitrotoluene	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
2,6-Dinitrotoluene	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
2-Chloronaphthalene	U		0.600	5.00	ug/L	1	17-Jul-2024 10:41
2-Chlorophenol	U		1.00	5.00	ug/L	1	17-Jul-2024 10:41
2-Methylphenol	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
2-Nitrophenol	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
3&4-Methylphenol	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
3,3'-Dichlorobenzidine	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
4,6-Dinitro-2-methylphenol	U		0.900	5.00	ug/L	1	17-Jul-2024 10:41
4-Bromophenyl phenyl ether	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
4-Chloro-3-methylphenol	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
4-Chlorophenyl phenyl ether	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
4-Nitrophenol	U		0.600	5.00	ug/L	1	17-Jul-2024 10:41
<b>Acenaphthene</b>	<b>1.33</b>	<b>J</b>	<b>0.300</b>	<b>5.00</b>	<b>ug/L</b>	1	17-Jul-2024 10:41
Acenaphthylene	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
Anthracene	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
Benz(a)anthracene	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
Benzidine	U		5.00	5.00	ug/L	1	17-Jul-2024 10:41
Benzo(a)pyrene	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
Benzo(b)fluoranthene	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
Benzo(g,h,i)perylene	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
Benzo(k)fluoranthene	U		0.700	5.00	ug/L	1	17-Jul-2024 10:41
Bis(2-chloroethoxy)methane	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
Bis(2-chloroethyl)ether	U		0.700	5.00	ug/L	1	17-Jul-2024 10:41
Bis(2-chloroisopropyl)ether	U		0.800	5.00	ug/L	1	17-Jul-2024 10:41
Bis(2-ethylhexyl)phthalate	U		0.800	5.00	ug/L	1	17-Jul-2024 10:41
Butyl benzyl phthalate	U		0.600	5.00	ug/L	1	17-Jul-2024 10:41
Chrysene	U		0.800	5.00	ug/L	1	17-Jul-2024 10:41
Dibenz(a,h)anthracene	U		0.600	5.00	ug/L	1	17-Jul-2024 10:41
Diethyl phthalate	U		0.700	5.00	ug/L	1	17-Jul-2024 10:41
Dimethyl phthalate	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 12-Jul-2024 10:40

**ANALYTICAL REPORT**  
 WorkOrder:HS24070558  
 Lab ID:HS24070558-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>SEMIVOLATILE</b>		<b>Method:E625</b>		Prep:E625 / 15-Jul-2024		Analyst: GEY	
Di-n-butyl phthalate	U		0.800	5.00	ug/L	1	17-Jul-2024 10:41
Di-n-octyl phthalate	U		2.00	5.00	ug/L	1	17-Jul-2024 10:41
Fluoranthene	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
Fluorene	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
Hexachlorobenzene	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
Hexachlorobutadiene	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
Hexachlorocyclopentadiene	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
Hexachloroethane	U		0.800	5.00	ug/L	1	17-Jul-2024 10:41
Indeno(1,2,3-cd)pyrene	U		0.600	5.00	ug/L	1	17-Jul-2024 10:41
Isophorone	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
Nitrobenzene	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
N-Nitrosodiethylamine	U		0.600	5.00	ug/L	1	17-Jul-2024 10:41
N-Nitrosodimethylamine	U		0.600	5.00	ug/L	1	17-Jul-2024 10:41
N-Nitroso-di-n-butylamine	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
N-Nitrosodi-n-propylamine	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
N-Nitrosodiphenylamine	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
Nonylphenol	U	n	5.00	5.00	ug/L	1	17-Jul-2024 10:41
Pentachlorobenzene	U		0.500	5.00	ug/L	1	17-Jul-2024 10:41
Pentachlorophenol	U		0.800	5.00	ug/L	1	17-Jul-2024 10:41
Phenanthrene	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
Phenol	U		0.400	5.00	ug/L	1	17-Jul-2024 10:41
Pyrene	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
Pyridine	U		0.300	5.00	ug/L	1	17-Jul-2024 10:41
<i>Surr: 2,4,6-Tribromophenol</i>	<i>100.0</i>			<i>42-124</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2024 10:41</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>95.5</i>			<i>48-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2024 10:41</i>
<i>Surr: 2-Fluorophenol</i>	<i>64.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2024 10:41</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>114</i>			<i>51-135</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2024 10:41</i>
<i>Surr: Nitrobenzene-d5</i>	<i>69.8</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2024 10:41</i>
<i>Surr: Phenol-d6</i>	<i>79.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2024 10:41</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 12-Jul-2024 10:40

**ANALYTICAL REPORT**  
 WorkOrder:HS24070558  
 Lab ID:HS24070558-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>CHLORINATED PEST/PCBS BY E608</b>		<b>Method:E608</b>			Prep:E608 / 19-Jul-2024		Analyst: DLB
4,4'-DDD	U		0.0100	0.100	ug/L	1	27-Jul-2024 05:15
4,4'-DDE	U		0.0100	0.100	ug/L	1	27-Jul-2024 05:15
4,4'-DDT	U		0.0100	0.100	ug/L	1	27-Jul-2024 05:15
Aldrin	U		0.00500	0.0500	ug/L	1	27-Jul-2024 05:15
alpha-BHC	U		0.0100	0.0500	ug/L	1	27-Jul-2024 05:15
Aroclor 1016	U		0.200	0.500	ug/L	1	26-Jul-2024 16:01
Aroclor 1221	U		0.200	0.500	ug/L	1	26-Jul-2024 16:01
Aroclor 1232	U		0.200	0.500	ug/L	1	26-Jul-2024 16:01
Aroclor 1242	U		0.200	0.500	ug/L	1	26-Jul-2024 16:01
Aroclor 1248	U		0.200	0.500	ug/L	1	26-Jul-2024 16:01
Aroclor 1254	U		0.200	0.500	ug/L	1	26-Jul-2024 16:01
Aroclor 1260	U		0.200	0.500	ug/L	1	26-Jul-2024 16:01
beta-BHC	U		0.0100	0.0500	ug/L	1	27-Jul-2024 05:15
Chlordane	U		0.100	0.500	ug/L	1	27-Jul-2024 05:15
delta-BHC	U		0.0100	0.0500	ug/L	1	27-Jul-2024 05:15
Dieldrin	U		0.00500	0.100	ug/L	1	27-Jul-2024 05:15
Endosulfan I	U		0.0100	0.0500	ug/L	1	27-Jul-2024 05:15
Endosulfan II	U		0.0100	0.100	ug/L	1	27-Jul-2024 05:15
Endosulfan sulfate	U		0.0100	0.100	ug/L	1	27-Jul-2024 05:15
Endrin	U		0.0100	0.100	ug/L	1	27-Jul-2024 05:15
Endrin aldehyde	U		0.0100	0.100	ug/L	1	27-Jul-2024 05:15
gamma-BHC	U		0.00500	0.0500	ug/L	1	27-Jul-2024 05:15
Heptachlor	U		0.00500	0.0500	ug/L	1	27-Jul-2024 05:15
Heptachlor epoxide	U		0.00500	0.0500	ug/L	1	27-Jul-2024 05:15
Toxaphene	U		0.130	0.500	ug/L	1	27-Jul-2024 05:15
Surr: Decachlorobiphenyl	94.7			61-154	%REC	1	26-Jul-2024 16:01
Surr: Decachlorobiphenyl	68.0			61-154	%REC	1	27-Jul-2024 05:15
Surr: Tetrachlor-m-xylene	67.0			60-144	%REC	1	26-Jul-2024 16:01
Surr: Tetrachlor-m-xylene	73.5			60-144	%REC	1	27-Jul-2024 05:15
<b>TRIVALENT CHROMIUM</b>		<b>Method:Calculation</b>					Analyst: MSC
Chromium, Trivalent	U	n	0.0100	0.0100	mg/L	1	25-Jul-2024 12:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 12-Jul-2024 10:40

**ANALYTICAL REPORT**  
 WorkOrder:HS24070558  
 Lab ID:HS24070558-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>TOTAL METALS BY E200.8, REV 5.4, 1994</b>		<b>Method:E200.8</b>		Prep:E200.8 / 19-Jul-2024		Analyst: JC	
Aluminum	18.9		0.800	10.0	ug/l	1	24-Jul-2024 21:25
Antimony		U	0.0530	5.00	ug/l	1	24-Jul-2024 21:25
Arsenic		U	0.250	2.00	ug/l	1	24-Jul-2024 21:25
Barium	1,590		0.0840	4.00	ug/l	1	24-Jul-2024 21:25
Beryllium		U	0.0910	5.00	ug/l	1	24-Jul-2024 21:25
Cadmium		U	0.0770	2.00	ug/l	1	24-Jul-2024 21:25
Chromium	1.39	J	0.251	4.00	ug/l	1	24-Jul-2024 21:25
Copper	2.42		0.170	2.00	ug/l	1	24-Jul-2024 21:25
Iron	18,300		50.0	200	ug/l	1	24-Jul-2024 21:25
Lead	0.792	J	0.120	2.00	ug/l	1	24-Jul-2024 21:25
Magnesium	51,700		7.80	500	ug/l	1	24-Jul-2024 21:25
Manganese	342		0.0660	5.00	ug/l	1	24-Jul-2024 21:25
Molybdenum		U	0.490	5.00	ug/l	1	24-Jul-2024 21:25
Nickel	0.565	J	0.110	2.00	ug/l	1	24-Jul-2024 21:25
Selenium		U	0.860	2.00	ug/l	1	24-Jul-2024 21:25
Silver		U	0.0440	2.00	ug/l	1	24-Jul-2024 21:25
Thallium		U	0.250	2.00	ug/l	1	24-Jul-2024 21:25
Zinc	9.31		1.00	4.00	ug/l	1	24-Jul-2024 21:25
<b>OIL &amp; GREASE (HEM) BY E1664A</b>		<b>Method:E1664A</b>				Analyst: MC	
Oil and Grease	0.952	J	0.610	2.00	mg/L	1	25-Jul-2024 08:00
<b>ANIONS BY E300.0, REV 2.1, 1993</b>		<b>Method:E300</b>				Analyst: TH	
Bromide	0.468		0.0300	0.100	mg/L	1	12-Jul-2024 22:53
Chloride	41.5		0.200	0.500	mg/L	1	12-Jul-2024 22:53
Fluoride	0.406		0.0500	0.100	mg/L	1	12-Jul-2024 22:53
Nitrogen, Nitrate (As N)		U	0.0300	0.100	mg/L	1	12-Jul-2024 22:53
Sulfate	11.8		0.200	0.500	mg/L	1	12-Jul-2024 22:53
<b>PHOSPHORUS BY E365.3-1978</b>		<b>Method:E365.3</b>		Prep:E365.3 / 22-Jul-2024		Analyst: SG	
Phosphorus, Total (As P)		U	0.0200	0.0500	mg/L	1	22-Jul-2024 14:02
<b>CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993</b>		<b>Method:E410.4</b>				Analyst: TH	
Chemical Oxygen Demand	80.0		5.00	15.0	mg/L	1	25-Jul-2024 14:00
<b>TOTAL DISSOLVED SOLIDS BY SM2540C-2011</b>		<b>Method:M2540C</b>				Analyst: MH	
Total Dissolved Solids (Residue, Filterable)	1,120		5.00	10.0	mg/L	1	16-Jul-2024 09:00
<b>TOTAL SUSPENDED SOLIDS BY SM2540D-2011</b>		<b>Method:M2540D</b>				Analyst: MH	
Suspended Solids (Residue, Non-Filterable)	52.0		0.930	2.50	mg/L	1	18-Jul-2024 11:00
<b>ORGANIC NITROGEN BY SM4500-NH3D MINUS NH3F-2011</b>		<b>Method:M4500 NH3 D</b>				Analyst: JHD	
Nitrogen, Organic		U	0.50	0.50	mg/L	1	26-Jul-2024 16:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: SKA Consulting, L.P.  
 Project: Doty Wastewater Permit  
 Sample ID: SB-57  
 Collection Date: 12-Jul-2024 10:40

**ANALYTICAL REPORT**  
 WorkOrder:HS24070558  
 Lab ID:HS24070558-01  
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011</b>		Method:M4500 NH3 D				Prep:M4500-N C / 23-Jul-2024	Analyst: HB
Nitrogen, Total Kjeldahl	2.7		0.10	0.50	mg/L	1	23-Jul-2024 15:00
<b>DISSOLVED OXYGEN BY SM4500-O G</b>		Method:M4500-O G					Analyst: AR
Oxygen, Dissolved	U	H	1.00	1.00	mg/L	1	23-Jul-2024 15:07
<b>ALKALINITY BY -2011</b>		Method:SM2320B					Analyst: AR
Alkalinity, Total (As CaCO3)	1,090		2.50	5.00	mg/L	1	26-Jul-2024 10:34
<b>AMMONIA AS N BY SM4500 NH3-B-F-2011</b>		Method:SM4500 NH3-B-F				Prep:M4500-NH3 B / 18-Jul-2024	Analyst: SG
Nitrogen, Ammonia (as N)	3.8		0.12	0.25	mg/L	1	18-Jul-2024 13:34
<b>RESIDUAL CHLORINE BY SM4500CL F-2011</b>		Method:SM4500CL F					Analyst: MC
Chlorine	U	H	0.10	0.10	mg/L	1	17-Jul-2024 14:21
<b>PH BY SM4500H+ B-2011</b>		Method:SM4500H+ B					Analyst: MR
pH	7.03	H	0.100	0.100	pH Units	1	18-Jul-2024 08:43
Temp Deg C @pH	21.5	H	0	0	°C	1	18-Jul-2024 08:43
<b>BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011</b>		Method:SM5210 B				Prep:SM5210 B / 13-Jul-2024	Analyst: AR
Biochemical Oxygen Demand	2.42		2.00	2.00	mg/L	1	18-Jul-2024 15:00
<b>CBOD BY SM5210B-2011</b>		Method:SM5210 B				Prep:SM5210 B / 12-Jul-2024	Analyst: AR
Carbonaceous Biochemical Oxygen Demand	U		2.00	2.00	mg/L	1	17-Jul-2024 15:14
<b>HEXAVALENT CHROMIUM BY SW7196A</b>		Method:SW7196					Analyst: HB
Chromium, Hexavalent	0.00700	J	0.00600	0.0100	mg/L	1	12-Jul-2024 16:15
<b>TOTAL ORGANIC CARBON BY SW9060A</b>		Method:SW9060					Analyst: MZD
Organic Carbon, Total	23.8		0.500	1.00	mg/L	1	22-Jul-2024 13:33
<b>SUB ANALYSIS AVAILABLE CYANIDE - EPA OIA-1667</b>		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0		NA	1	26-Jul-2024 10:41
<b>SUBCONTRACT ANALYSIS - MERCURY LOW</b>		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0		NA	1	26-Jul-2024 10:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

<b>Batch ID:</b> 214726	<b>Start Date:</b> 12 Jul 2024 13:30	<b>End Date:</b> 12 Jul 2024 13:30
<b>Method:</b> CBOD PREP	<b>Prep Code:</b> CBOD_PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24070558-01		300 (mL)	300 (mL)	1	1-L plastic, Neat

<b>Batch ID:</b> 214792	<b>Start Date:</b> 13 Jul 2024 09:00	<b>End Date:</b> 13 Jul 2024 09:00
<b>Method:</b> WETCHEMPREP, BOD	<b>Prep Code:</b> BOD_PR 5210B	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24070558-01		300 (mL)	300 (mL)	1	1-L plastic, Neat

<b>Batch ID:</b> 214816	<b>Start Date:</b> 15 Jul 2024 07:30	<b>End Date:</b> 15 Jul 2024 07:30
<b>Method:</b> 625 AQ SEP FUNNEL EXTRACTION	<b>Prep Code:</b> 625PRF	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24070558-01		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Sodium thiosulfate

<b>Batch ID:</b> 215016	<b>Start Date:</b> 18 Jul 2024 07:00	<b>End Date:</b> 18 Jul 2024 07:00
<b>Method:</b> NITROGEN AMMONIA - WATER - PREP	<b>Prep Code:</b> NIT_AMM_W_PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24070558-01		5 (mL)	25 (mL)	5	500 mL plastic, H2SO4 to pH <2

<b>Batch ID:</b> 215038	<b>Start Date:</b> 19 Jul 2024 10:00	<b>End Date:</b> 19 Jul 2024 10:00
<b>Method:</b> TOTAL METALS PREP BY E200.8, REV 5.4, 1994	<b>Prep Code:</b> 200.8PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24070558-01		10 (mL)	10 (mL)	1	120 plastic HNO3

<b>Batch ID:</b> 215055	<b>Start Date:</b> 19 Jul 2024 09:30	<b>End Date:</b> 19 Jul 2024 09:30
<b>Method:</b> AQPREP SEP FUNNEL: PEST/PCB	<b>Prep Code:</b> 608PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24070558-01		1000 (mL)	10 (mL)	0.01	1-liter amber glass, Neat

<b>Batch ID:</b> 215121	<b>Start Date:</b> 22 Jul 2024 10:00	<b>End Date:</b> 22 Jul 2024 10:00
<b>Method:</b> PHOSPHOROUS	<b>Prep Code:</b> P_TW_PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24070558-01		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2

<b>Batch ID:</b> 215190	<b>Start Date:</b> 23 Jul 2024 09:00	<b>End Date:</b> 23 Jul 2024 09:00
<b>Method:</b> TKN WATER - PREP	<b>Prep Code:</b> TKN_W_PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24070558-01		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 214726 ( 0 )		<b>Test Name :</b> CBOD BY SM5210B-2011			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40		12 Jul 2024 13:30	17 Jul 2024 15:14	1
<b>Batch ID:</b> 214792 ( 0 )		<b>Test Name :</b> BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40		13 Jul 2024 09:00	18 Jul 2024 15:00	1
<b>Batch ID:</b> 214816 ( 0 )		<b>Test Name :</b> SEMIVOLATILE			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40		15 Jul 2024 07:30	17 Jul 2024 10:41	1
<b>Batch ID:</b> 215016 ( 0 )		<b>Test Name :</b> AMMONIA AS N BY SM4500 NH3-B-F-2011			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40		18 Jul 2024 07:00	18 Jul 2024 13:34	1
<b>Batch ID:</b> 215038 ( 1 )		<b>Test Name :</b> TOTAL METALS BY E200.8, REV 5.4, 1994			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40		19 Jul 2024 10:00	24 Jul 2024 21:25	1
<b>Batch ID:</b> 215055 ( 0 )		<b>Test Name :</b> CHLORINATED PEST/PCBS BY E608			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40		19 Jul 2024 09:30	26 Jul 2024 16:01	1
<b>Batch ID:</b> 215055 ( 1 )		<b>Test Name :</b> CHLORINATED PEST/PCBS BY E608			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40		19 Jul 2024 09:30	27 Jul 2024 05:15	1
<b>Batch ID:</b> 215121 ( 0 )		<b>Test Name :</b> PHOSPHORUS BY E365.3-1978			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40		22 Jul 2024 10:00	22 Jul 2024 14:02	1
<b>Batch ID:</b> 215190 ( 0 )		<b>Test Name :</b> TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40		23 Jul 2024 09:00	23 Jul 2024 15:00	1
<b>Batch ID:</b> R471778 ( 0 )		<b>Test Name :</b> HEXAVALENT CHROMIUM BY SW7196A			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			12 Jul 2024 16:15	1
<b>Batch ID:</b> R471869 ( 0 )		<b>Test Name :</b> ANIONS BY E300.0, REV 2.1, 1993			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			12 Jul 2024 22:53	1
<b>Batch ID:</b> R471987 ( 0 )		<b>Test Name :</b> VOLATILES			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			15 Jul 2024 14:18	1
<b>Batch ID:</b> R472056 ( 0 )		<b>Test Name :</b> TOTAL DISSOLVED SOLIDS BY SM2540C-2011			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			16 Jul 2024 09:00	1
<b>Batch ID:</b> R472131 ( 0 )		<b>Test Name :</b> RESIDUAL CHLORINE BY SM4500CL F-2011			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			17 Jul 2024 14:21	1
<b>Batch ID:</b> R472184 ( 0 )		<b>Test Name :</b> PH BY SM4500H+ B-2011			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			18 Jul 2024 08:43	1
<b>Batch ID:</b> R472259 ( 0 )		<b>Test Name :</b> TOTAL SUSPENDED SOLIDS BY SM 2540D-2011			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			18 Jul 2024 11:00	1
<b>Batch ID:</b> R472568 ( 0 )		<b>Test Name :</b> DISSOLVED OXYGEN BY SM4500-O G			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			23 Jul 2024 15:07	1

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> R472600 ( 0 )		<b>Test Name :</b> TOTAL ORGANIC CARBON BY SW9060A			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			22 Jul 2024 13:33	1
<b>Batch ID:</b> R472789 ( 0 )		<b>Test Name :</b> TRIVALENT CHROMIUM			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			25 Jul 2024 12:05	1
<b>Batch ID:</b> R472823 ( 0 )		<b>Test Name :</b> CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			25 Jul 2024 14:00	1
<b>Batch ID:</b> R472827 ( 0 )		<b>Test Name :</b> OIL & GREASE (HEM) BY E1664A			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			25 Jul 2024 08:00	1
<b>Batch ID:</b> R472908 ( 0 )		<b>Test Name :</b> SUBCONTRACT ANALYSIS - MERCURY LOW			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			26 Jul 2024 10:41	1
HS24070558-01	SB-57	12 Jul 2024 10:40			26 Jul 2024 10:41	1
<b>Batch ID:</b> R472973 ( 0 )		<b>Test Name :</b> ALKALINITY BY -2011			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			26 Jul 2024 10:34	1
<b>Batch ID:</b> R472985 ( 0 )		<b>Test Name :</b> ORGANIC NITROGEN BY SM4500-NH3D MINUS NH3F-2011			<b>Matrix:</b> Water	
HS24070558-01	SB-57	12 Jul 2024 10:40			26 Jul 2024 16:43	1

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** 215055 ( 0 )      **Instrument:** ECD\_7      **Method:** CHLORINATED PEST/PCBS BY E608

MBLK		Sample ID: MBLK-215055			Units: ug/L		Analysis Date: 26-Jul-2024 16:39			
Client ID:		Run ID: ECD_7_473077			SeqNo: 8163204		PrepDate: 19-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	0.500								
Aroclor 1221	U	0.500								
Aroclor 1232	U	0.500								
Aroclor 1242	U	0.500								
Aroclor 1248	U	0.500								
Aroclor 1254	U	0.500								
Aroclor 1260	U	0.500								
<i>Surr: Decachlorobiphenyl</i>	0.2397	0.100	0.2	0	120	61 - 154				
<i>Surr: Tetrachlor-m-xylene</i>	0.1962	0.0500	0.2	0	98.1	60 - 144				

LCS		Sample ID: LCS1-215055			Units: ug/L		Analysis Date: 26-Jul-2024 16:51			
Client ID:		Run ID: ECD_7_473077			SeqNo: 8163205		PrepDate: 19-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.814	0.500	5	0	96.3	54 - 138				
Aroclor 1260	4.833	0.500	5	0	96.7	57 - 136				
<i>Surr: Decachlorobiphenyl</i>	0.2627	0.100	0.2	0	131	61 - 154				
<i>Surr: Tetrachlor-m-xylene</i>	0.1972	0.0500	0.2	0	98.6	60 - 144				

LCSD		Sample ID: LCSD1-215055			Units: ug/L		Analysis Date: 26-Jul-2024 17:04			
Client ID:		Run ID: ECD_7_473077			SeqNo: 8163206		PrepDate: 19-Jul-2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.909	0.500	5	0	98.2	54 - 138	4.814	1.95	20	
Aroclor 1260	5.523	0.500	5	0	110	57 - 136	4.833	13.3	20	
<i>Surr: Decachlorobiphenyl</i>	0.2842	0.100	0.2	0	142	61 - 154	0.2627	7.84	20	
<i>Surr: Tetrachlor-m-xylene</i>	0.2263	0.0500	0.2	0	113	60 - 144	0.1972	13.8	20	

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** 215055 ( 1 )      **Instrument:** ECD\_15      **Method:** CHLORINATED PEST/PCBS BY E608

MBLK	Sample ID: MBLK-215055	Units: ug/L			Analysis Date: 27-Jul-2024 06:13					
Client ID:	Run ID: ECD_15_473134	SeqNo: 8164513	PrepDate: 19-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	U	0.100								
4,4'-DDE	U	0.100								
4,4'-DDT	U	0.100								
Aldrin	U	0.0500								
alpha-BHC	U	0.0500								
beta-BHC	U	0.0500								
Chlordane	U	0.500								
delta-BHC	U	0.0500								
Dieldrin	U	0.100								
Endosulfan I	U	0.0500								
Endosulfan II	U	0.100								
Endosulfan sulfate	U	0.100								
Endrin	U	0.100								
Endrin aldehyde	U	0.100								
gamma-BHC	U	0.0500								
Heptachlor	U	0.0500								
Heptachlor epoxide	U	0.0500								
Toxaphene	U	0.500								
Surr: Decachlorobiphenyl	0.2517	0.100	0.2	0	126	61 - 154				
Surr: Tetrachlor-m-xylene	0.1898	0.0500	0.2	0	94.9	60 - 144				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: 215055 ( 1 )		Instrument: ECD_15		Method: CHLORINATED PEST/PCBS BY E608						
LCS	Sample ID: LCS-215055	Units: ug/L			Analysis Date: 27-Jul-2024 05:34					
Client ID:	Run ID: ECD_15_473134	SeqNo: 8164511	PrepDate: 19-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.5237	0.100	0.5	0	105	53 - 144				
4,4'-DDE	0.5055	0.100	0.5	0	101	55 - 144				
4,4'-DDT	0.489	0.100	0.5	0	97.8	53 - 149				
Aldrin	0.2425	0.0500	0.25	0	97.0	47 - 141				
alpha-BHC	0.2488	0.0500	0.25	0	99.5	51 - 141				
beta-BHC	0.2388	0.0500	0.25	0	95.5	58 - 144				
delta-BHC	0.2471	0.0500	0.25	0	98.8	48 - 146				
Dieldrin	0.5034	0.100	0.5	0	101	56 - 144				
Endosulfan I	0.2054	0.0500	0.25	0	82.2	55 - 141				
Endosulfan II	0.4372	0.100	0.5	0	87.4	57 - 144				
Endosulfan sulfate	0.5021	0.100	0.5	0	100	58 - 145				
Endrin	0.5725	0.100	0.5	0	115	60 - 163				
Endrin aldehyde	0.4756	0.100	0.5	0	95.1	59 - 158				
gamma-BHC	0.2492	0.0500	0.25	0	99.7	53 - 142				
Heptachlor	0.2603	0.0500	0.25	0	104	51 - 144				
Heptachlor epoxide	0.2463	0.0500	0.25	0	98.5	55 - 142				
Surr: Decachlorobiphenyl	0.2458	0.100	0.2	0	123	61 - 154				
Surr: Tetrachlor-m-xylene	0.1958	0.0500	0.2	0	97.9	60 - 144				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: 215055 ( 1 )		Instrument: ECD_15		Method: CHLORINATED PEST/PCBS BY E608						
LCSD	Sample ID: LCSD-215055	Units: ug/L			Analysis Date: 27-Jul-2024 05:54					
Client ID:	Run ID: ECD_15_473134	SeqNo: 8164512	PrepDate: 19-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.6369	0.100	0.5	0	127	53 - 144	0.5237	19.5	20	
4,4'-DDE	0.6288	0.100	0.5	0	126	55 - 144	0.5055	21.7	20	R
4,4'-DDT	0.6131	0.100	0.5	0	123	53 - 149	0.489	22.5	20	R
Aldrin	0.2986	0.0500	0.25	0	119	47 - 141	0.2425	20.7	20	R
alpha-BHC	0.3045	0.0500	0.25	0	122	51 - 141	0.2488	20.1	20	R
beta-BHC	0.2926	0.0500	0.25	0	117	58 - 144	0.2388	20.3	20	R
delta-BHC	0.302	0.0500	0.25	0	121	48 - 146	0.2471	20	20	R
Dieldrin	0.613	0.100	0.5	0	123	56 - 144	0.5034	19.6	20	
Endosulfan I	0.2559	0.0500	0.25	0	102	55 - 141	0.2054	21.9	20	R
Endosulfan II	0.5356	0.100	0.5	0	107	57 - 144	0.4372	20.2	20	R
Endosulfan sulfate	0.6106	0.100	0.5	0	122	58 - 145	0.5021	19.5	20	
Endrin	0.6797	0.100	0.5	0	136	60 - 163	0.5725	17.1	20	
Endrin aldehyde	0.596	0.100	0.5	0	119	59 - 158	0.4756	22.5	20	R
gamma-BHC	0.3054	0.0500	0.25	0	122	53 - 142	0.2492	20.3	20	R
Heptachlor	0.3196	0.0500	0.25	0	128	51 - 144	0.2603	20.5	20	R
Heptachlor epoxide	0.3017	0.0500	0.25	0	121	55 - 142	0.2463	20.2	20	R
Surr: Decachlorobiphenyl	0.3012	0.100	0.2	0	151	61 - 154	0.2458	20.2	20	R
Surr: Tetrachlor-m-xylene	0.235	0.0500	0.2	0	118	60 - 144	0.1958	18.2	20	

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

<b>Batch ID:</b> 215038 ( 1 )	<b>Instrument:</b> ICPMS07	<b>Method:</b> TOTAL METALS BY E200.8, REV 5.4, 1994								
<b>MBLK</b>	Sample ID: <b>MBLK-215038</b>	Units: <b>ug/l</b>	Analysis Date: <b>24-Jul-2024 20:27</b>							
Client ID:	Run ID: <b>ICPMS07_472675</b>	SeqNo: <b>8156535</b>	PrepDate: <b>19-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Aluminum	U	10.0								
Antimony	U	5.00								
Arsenic	U	2.00								
Barium	U	4.00								
Beryllium	U	5.00								
Cadmium	U	2.00								
Chromium	U	4.00								
Copper	U	2.00								
Iron	U	200								
Lead	U	2.00								
Magnesium	U	500								
Manganese	U	5.00								
Molybdenum	U	5.00								
Nickel	U	2.00								
Selenium	U	2.00								
Silver	U	2.00								
Thallium	U	2.00								
Zinc	U	4.00								

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** 215038 ( 1 )      **Instrument:** ICPMS07      **Method:** TOTAL METALS BY E200.8, REV 5.4, 1994

<b>LCS</b>		Sample ID: <b>LCS-215038</b>			Units: <b>ug/l</b>		Analysis Date: <b>24-Jul-2024 20:30</b>			
Client ID:		Run ID: <b>ICPMS07_472675</b>			SeqNo: <b>8156536</b>		PrepDate: <b>19-Jul-2024</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	101.7	10.0	100	0	102	85 - 115				
Antimony	48.26	5.00	50	0	96.5	85 - 115				
Arsenic	49.11	2.00	50	0	98.2	85 - 115				
Barium	49.13	4.00	50	0	98.3	85 - 115				
Beryllium	49.34	5.00	50	0	98.7	85 - 115				
Cadmium	50.14	2.00	50	0	100	85 - 115				
Chromium	47.67	4.00	50	0	95.3	85 - 115				
Copper	49.2	2.00	50	0	98.4	85 - 115				
Iron	4847	200	5000	0	96.9	85 - 115				
Lead	47.63	2.00	50	0	95.3	85 - 115				
Magnesium	4846	500	5000	0	96.9	85 - 115				
Manganese	48.56	5.00	50	0	97.1	85 - 115				
Molybdenum	49.2	5.00	50	0	98.4	85 - 115				
Nickel	49.67	2.00	50	0	99.3	85 - 115				
Selenium	49.34	2.00	50	0	98.7	85 - 115				
Silver	48.66	2.00	50	0	97.3	85 - 115				
Zinc	51.73	4.00	50	0	103	85 - 115				

<b>LCS</b>		Sample ID: <b>LCS-215038</b>			Units: <b>ug/l</b>		Analysis Date: <b>25-Jul-2024 12:05</b>			
Client ID:		Run ID: <b>ICPMS07_472786</b>			SeqNo: <b>8157273</b>		PrepDate: <b>19-Jul-2024</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	48.34	2.00	50	0	96.7	85 - 115				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** 215038 ( 1 )      **Instrument:** ICPMS07      **Method:** TOTAL METALS BY E200.8, REV 5.4, 1994

MS	Sample ID: HS24070521-02MS	Units: ug/l			Analysis Date: 24-Jul-2024 20:42					
Client ID:	Run ID: ICPMS07_472675	SeqNo: 8156541	PrepDate: 19-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	136.7	10.0	100	41.12	95.6	70 - 130				
Antimony	45.62	5.00	50	0.092	91.0	70 - 130				
Arsenic	62.43	2.00	50	15.29	94.3	70 - 130				
Barium	86.32	4.00	50	38.59	95.4	70 - 130				
Beryllium	48.65	5.00	50	0.024	97.2	70 - 130				
Cadmium	47.44	2.00	50	0.014	94.9	70 - 130				
Chromium	47.01	4.00	50	1.934	90.2	70 - 130				
Copper	45.72	2.00	50	0.407	90.6	70 - 130				
Iron	5338	200	5000	809.7	90.6	70 - 130				
Lead	45.98	2.00	50	0.072	91.8	70 - 130				
Magnesium	13040	500	5000	8506	90.8	70 - 130				
Manganese	60.12	5.00	50	10.89	98.5	70 - 130				
Molybdenum	90.26	5.00	50	41.39	97.7	70 - 130				
Nickel	45.78	2.00	50	0.223	91.1	70 - 130				
Selenium	48.66	2.00	50	1.497	94.3	70 - 130				
Silver	45.48	2.00	50	-0.001	91.0	70 - 130				
Thallium	38.82	2.00	50	0.123	77.4	70 - 130				
Zinc	56.1	4.00	50	6.914	98.4	70 - 130				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** 215038 ( 1 )      **Instrument:** ICPMS07      **Method:** TOTAL METALS BY E200.8, REV 5.4, 1994

<b>MS</b>		Sample ID: <b>HS24070521-01MS</b>			Units: <b>ug/l</b>		Analysis Date: <b>24-Jul-2024 20:34</b>			
Client ID:		Run ID: <b>ICPMS07_472675</b>			SeqNo: <b>8156538</b>		PrepDate: <b>19-Jul-2024</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	92.26	10.0	100	10.06	82.2	70 - 130				
Antimony	43.62	5.00	50	0.214	86.8	70 - 130				
Arsenic	60.35	2.00	50	15.26	90.2	70 - 130				
Barium	118.4	4.00	50	72.93	91.0	70 - 130				
Beryllium	49.68	5.00	50	0.026	99.3	70 - 130				
Cadmium	48.22	2.00	50	0.019	96.4	70 - 130				
Chromium	46.06	4.00	50	5.227	81.7	70 - 130				
Copper	44.36	2.00	50	4.358	80.0	70 - 130				
Iron	4585	200	5000	2590	39.9	70 - 130				S
Lead	46.49	2.00	50	0.259	92.5	70 - 130				
Magnesium	28450	500	5000	25910	50.7	70 - 130				SO
Molybdenum	63.76	5.00	50	15.82	95.9	70 - 130				
Nickel	44.28	2.00	50	2.308	83.9	70 - 130				
Selenium	46.73	2.00	50	2.391	88.7	70 - 130				
Silver	45.47	2.00	50	0.003	90.9	70 - 130				
Thallium	38.28	2.00	50	0.133	76.3	70 - 130				
Zinc	48.35	4.00	50	18.17	60.4	70 - 130				S

<b>MS</b>		Sample ID: <b>HS24070521-01MS</b>			Units: <b>ug/l</b>		Analysis Date: <b>25-Jul-2024 12:07</b>			
Client ID:		Run ID: <b>ICPMS07_472786</b>			SeqNo: <b>8157274</b>		PrepDate: <b>19-Jul-2024</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	116.8	5.00	50	78.23	77.1	70 - 130				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** 215038 ( 1 )      **Instrument:** ICPMS07      **Method:** TOTAL METALS BY E200.8, REV 5.4, 1994

<b>MSD</b>		Sample ID: <b>HS24070521-02MSD</b>			Units: <b>ug/l</b>		Analysis Date: <b>24-Jul-2024 20:44</b>			
Client ID:		Run ID: <b>ICPMS07_472675</b>			SeqNo: <b>8156542</b>		PrepDate: <b>19-Jul-2024</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	135.7	10.0	100	41.12	94.6	70 - 130	136.7	0.73	20	
Antimony	45.89	5.00	50	0.092	91.6	70 - 130	45.62	0.599	20	
Arsenic	62.71	2.00	50	15.29	94.8	70 - 130	62.43	0.447	20	
Barium	84.68	4.00	50	38.59	92.2	70 - 130	86.32	1.92	20	
Beryllium	48.79	5.00	50	0.024	97.5	70 - 130	48.65	0.289	20	
Cadmium	47.86	2.00	50	0.014	95.7	70 - 130	47.44	0.883	20	
Chromium	47.28	4.00	50	1.934	90.7	70 - 130	47.01	0.581	20	
Copper	46.22	2.00	50	0.407	91.6	70 - 130	45.72	1.09	20	
Iron	5388	200	5000	809.7	91.6	70 - 130	5338	0.93	20	
Lead	45.9	2.00	50	0.072	91.7	70 - 130	45.98	0.187	20	
Magnesium	13300	500	5000	8506	95.8	70 - 130	13040	1.92	20	
Manganese	60.39	5.00	50	10.89	99.0	70 - 130	60.12	0.448	20	
Molybdenum	88.34	5.00	50	41.39	93.9	70 - 130	90.26	2.15	20	
Nickel	45.27	2.00	50	0.223	90.1	70 - 130	45.78	1.12	20	
Selenium	48.21	2.00	50	1.497	93.4	70 - 130	48.66	0.941	20	
Silver	44.56	2.00	50	-0.001	89.1	70 - 130	45.48	2.03	20	
Thallium	38.92	2.00	50	0.123	77.6	70 - 130	38.82	0.27	20	
Zinc	56.44	4.00	50	6.914	99.0	70 - 130	56.1	0.592	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: 215038 ( 1 )		Instrument: ICPMS07		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MSD	Sample ID: HS24070521-01MSD	Units: ug/l			Analysis Date: 24-Jul-2024 20:37					
Client ID:	Run ID: ICPMS07_472675	SeqNo: 8156539	PrepDate: 19-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	97.56	10.0	100	10.06	87.5	70 - 130	92.26	5.59	20	
Antimony	46.17	5.00	50	0.214	91.9	70 - 130	43.62	5.7	20	
Arsenic	63.41	2.00	50	15.26	96.3	70 - 130	60.35	4.94	20	
Barium	121.7	4.00	50	72.93	97.6	70 - 130	118.4	2.71	20	
Beryllium	52.37	5.00	50	0.026	105	70 - 130	49.68	5.27	20	
Cadmium	49.29	2.00	50	0.019	98.5	70 - 130	48.22	2.19	20	
Chromium	48.89	4.00	50	5.227	87.3	70 - 130	46.06	5.97	20	
Copper	46.78	2.00	50	4.358	84.8	70 - 130	44.36	5.31	20	
Iron	4868	200	5000	2590	45.6	70 - 130	4585	5.99	20	S
Lead	47.86	2.00	50	0.259	95.2	70 - 130	46.49	2.9	20	
Magnesium	30540	500	5000	25910	92.5	70 - 130	28450	7.09	20	O
Manganese	113.8	5.00	50	78.23	71.2	70 - 130	106.5	6.65	20	
Molybdenum	65.81	5.00	50	15.82	100.0	70 - 130	63.76	3.16	20	
Nickel	46.46	2.00	50	2.308	88.3	70 - 130	44.28	4.81	20	
Selenium	49.41	2.00	50	2.391	94.0	70 - 130	46.73	5.59	20	
Silver	46.89	2.00	50	0.003	93.8	70 - 130	45.47	3.07	20	
Thallium	39.29	2.00	50	0.133	78.3	70 - 130	38.28	2.59	20	
Zinc	51.01	4.00	50	18.17	65.7	70 - 130	48.35	5.36	20	S

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: 214816 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
MBLK	Sample ID: MBLK-214816	Units: ug/L			Analysis Date: 16-Jul-2024 21:52					
Client ID:	Run ID: SV-4_472130	SeqNo: 8145911	PrepDate: 15-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	U	5.00								
1,2,4-Trichlorobenzene	U	5.00								
1,2-Diphenylhydrazine	U	5.00								
2,4,5-Trichlorophenol	U	5.00								
2,4,6-Trichlorophenol	U	5.00								
2,4-Dichlorophenol	U	5.00								
2,4-Dimethylphenol	U	5.00								
2,4-Dinitrophenol	U	5.00								
2,4-Dinitrotoluene	U	5.00								
2,6-Dinitrotoluene	U	5.00								
2-Chloronaphthalene	U	5.00								
2-Chlorophenol	U	5.00								
2-Methylphenol	U	5.00								
2-Nitrophenol	U	5.00								
3&4-Methylphenol	U	5.00								
3,3'-Dichlorobenzidine	U	5.00								
4,6-Dinitro-2-methylphenol	U	5.00								
4-Bromophenyl phenyl ether	U	5.00								
4-Chloro-3-methylphenol	U	5.00								
4-Chlorophenyl phenyl ether	U	5.00								
4-Nitrophenol	U	5.00								
Acenaphthene	U	5.00								
Acenaphthylene	U	5.00								
Anthracene	U	5.00								
Benz(a)anthracene	U	5.00								
Benzidine	U	5.00								
Benzo(a)pyrene	U	5.00								
Benzo(b)fluoranthene	U	5.00								
Benzo(g,h,i)perylene	U	5.00								
Benzo(k)fluoranthene	U	5.00								
Bis(2-chloroethoxy)methane	U	5.00								
Bis(2-chloroethyl)ether	U	5.00								
Bis(2-chloroisopropyl)ether	U	5.00								
Bis(2-ethylhexyl)phthalate	U	5.00								

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: 214816 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
MBLK	Sample ID: MBLK-214816	Units: ug/L			Analysis Date: 16-Jul-2024 21:52					
Client ID:	Run ID: SV-4_472130	SeqNo: 8145911		PrepDate: 15-Jul-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Butyl benzyl phthalate	U	5.00								
Chrysene	U	5.00								
Dibenz(a,h)anthracene	U	5.00								
Diethyl phthalate	U	5.00								
Dimethyl phthalate	U	5.00								
Di-n-butyl phthalate	U	5.00								
Di-n-octyl phthalate	U	5.00								
Fluoranthene	U	5.00								
Fluorene	U	5.00								
Hexachlorobenzene	U	5.00								
Hexachlorobutadiene	U	5.00								
Hexachlorocyclopentadiene	U	5.00								
Hexachloroethane	U	5.00								
Indeno(1,2,3-cd)pyrene	U	5.00								
Isophorone	U	5.00								
Nitrobenzene	U	5.00								
N-Nitrosodiethylamine	U	5.00								
N-Nitrosodimethylamine	U	5.00								
N-Nitroso-di-n-butylamine	U	5.00								
N-Nitrosodi-n-propylamine	U	5.00								
N-Nitrosodiphenylamine	U	5.00								
Nonylphenol	U	5.00								
Pentachlorobenzene	U	5.00								
Pentachlorophenol	U	5.00								
Phenanthrene	U	5.00								
Phenol	U	5.00								
Pyrene	U	5.00								
Pyridine	U	5.00								
Surr: 2,4,6-Tribromophenol	93.56	5.00	100	0	93.6	42 - 124				
Surr: 2-Fluorobiphenyl	97.83	5.00	100	0	97.8	48 - 120				
Surr: 2-Fluorophenol	76.86	5.00	100	0	76.9	20 - 120				
Surr: 4-Terphenyl-d14	104.3	5.00	100	0	104	51 - 135				
Surr: Nitrobenzene-d5	89.86	5.00	100	0	89.9	41 - 120				
Surr: Phenol-d6	79.84	5.00	100	0	79.8	20 - 120				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: 214816 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS-214816	Units: ug/L			Analysis Date: 16-Jul-2024 22:14					
Client ID:	Run ID: SV-4_472130	SeqNo: 8145912	PrepDate: 15-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	102.6	5.00	100	0	103	49 - 120				
1,2,4-Trichlorobenzene	94.45	5.00	100	0	94.4	54 - 118				
1,2-Diphenylhydrazine	104.4	5.00	100	0	104	57 - 134				
2,4,5-Trichlorophenol	96.89	5.00	100	0	96.9	52 - 115				
2,4,6-Trichlorophenol	104.3	5.00	100	0	104	56 - 115				
2,4-Dichlorophenol	95.3	5.00	100	0	95.3	53 - 115				
2,4-Dimethylphenol	103.4	5.00	100	0	103	53 - 115				
2,4-Dinitrophenol	111.4	5.00	100	0	111	47 - 115				
2,4-Dinitrotoluene	95.15	5.00	100	0	95.1	56 - 115				
2,6-Dinitrotoluene	98.02	5.00	100	0	98.0	57 - 115				
2-Chloronaphthalene	113.3	5.00	100	0	113	65 - 125				
2-Chlorophenol	90.22	5.00	100	0	90.2	54 - 115				
2-Methylphenol	87.05	5.00	100	0	87.1	53 - 115				
2-Nitrophenol	97.45	5.00	100	0	97.5	53 - 115				
3&4-Methylphenol	91.11	5.00	100	0	91.1	48 - 115				
3,3'-Dichlorobenzidine	101.4	5.00	100	0	101	25 - 115				
4,6-Dinitro-2-methylphenol	120.2	5.00	100	0	120	51 - 121				
4-Bromophenyl phenyl ether	120.3	5.00	100	0	120	49 - 115				S
4-Chloro-3-methylphenol	92.76	5.00	100	0	92.8	51 - 115				
4-Chlorophenyl phenyl ether	96.74	5.00	100	0	96.7	56 - 115				
4-Nitrophenol	93.72	5.00	100	0	93.7	26 - 133				
Acenaphthene	97.02	5.00	100	0	97.0	57 - 115				
Acenaphthylene	99.02	5.00	100	0	99.0	57 - 118				
Anthracene	106.1	5.00	100	0	106	65 - 115				
Benz(a)anthracene	101.9	5.00	100	0	102	53 - 115				
Benidine	22.46	5.00	100	0	22.5	10 - 115				
Benzo(a)pyrene	101.1	5.00	100	0	101	57 - 115				
Benzo(b)fluoranthene	107.8	5.00	100	0	108	54 - 117				
Benzo(g,h,i)perylene	88.7	5.00	100	0	88.7	56 - 115				
Benzo(k)fluoranthene	86.49	5.00	100	0	86.5	50 - 115				
Bis(2-chloroethoxy)methane	105.9	5.00	100	0	106	54 - 115				
Bis(2-chloroethyl)ether	89.82	5.00	100	0	89.8	56 - 115				
Bis(2-chloroisopropyl)ether	81.7	5.00	100	0	81.7	48 - 115				
Bis(2-ethylhexyl)phthalate	96.3	5.00	100	0	96.3	50 - 115				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: 214816 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS-214816	Units: ug/L			Analysis Date: 16-Jul-2024 22:14					
Client ID:	Run ID: SV-4_472130	SeqNo: 8145912		PrepDate: 15-Jul-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Butyl benzyl phthalate	99.89	5.00	100	0	99.9	51 - 115				
Chrysene	97.44	5.00	100	0	97.4	52 - 120				
Dibenz(a,h)anthracene	100.8	5.00	100	0	101	56 - 115				
Diethyl phthalate	99.34	5.00	100	0	99.3	57 - 115				
Dimethyl phthalate	98.24	5.00	100	0	98.2	56 - 115				
Di-n-butyl phthalate	114.9	5.00	100	0	115	54 - 115				
Di-n-octyl phthalate	93.86	5.00	100	0	93.9	49 - 115				
Fluoranthene	114.6	5.00	100	0	115	58 - 115				
Fluorene	98.19	5.00	100	0	98.2	56 - 115				
Hexachlorobenzene	125.3	5.00	100	0	125	54 - 115			S	
Hexachlorobutadiene	95.46	5.00	100	0	95.5	51 - 115				
Hexachlorocyclopentadiene	102.5	5.00	100	0	102	48 - 115				
Hexachloroethane	88.91	5.00	100	0	88.9	54 - 115				
Indeno(1,2,3-cd)pyrene	100.3	5.00	100	0	100	51 - 115				
Isophorone	89.6	5.00	100	0	89.6	55 - 115				
Nitrobenzene	86.68	5.00	100	0	86.7	40 - 124				
N-Nitrosodiethylamine	47.02	5.00	50	0	94.0	40 - 130				
N-Nitrosodimethylamine	104.1	5.00	100	0	104	42 - 115				
N-Nitroso-di-n-butylamine	48.09	5.00	50	0	96.2	40 - 130				
N-Nitrosodi-n-propylamine	82.02	5.00	100	0	82.0	55 - 119				
N-Nitrosodiphenylamine	113.4	5.00	100	0	113	52 - 115				
Pentachlorobenzene	111.3	5.00	100	0	111	50 - 117			E	
Pentachlorophenol	119.8	5.00	100	0	120	45 - 125				
Phenanthrene	104.9	5.00	100	0	105	57 - 115				
Phenol	89.09	5.00	100	0	89.1	38 - 115				
Pyrene	99.19	5.00	100	0	99.2	54 - 119				
Pyridine	84.46	5.00	100	0	84.5	34 - 115				
Surr: 2,4,6-Tribromophenol	104.5	5.00	100	0	104	42 - 124				
Surr: 2-Fluorobiphenyl	104.2	5.00	100	0	104	48 - 120				
Surr: 2-Fluorophenol	86.24	5.00	100	0	86.2	20 - 120				
Surr: 4-Terphenyl-d14	102.1	5.00	100	0	102	51 - 135				
Surr: Nitrobenzene-d5	91.77	5.00	100	0	91.8	41 - 120				
Surr: Phenol-d6	89.6	5.00	100	0	89.6	20 - 120				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: 214816 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCS	Sample ID: LCS1-214816	Units: ug/L			Analysis Date: 18-Jul-2024 21:53					
Client ID:	Run ID: SV-4_472290	SeqNo: 8146951		PrepDate: 15-Jul-2024		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nonylphenol	71.01	5.00	100	0	71.0	40 - 140				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>96.79</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>96.8</i>	<i>42 - 124</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>79.3</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>79.3</i>	<i>48 - 120</i>				
<i>Surr: 2-Fluorophenol</i>	<i>69.15</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>69.2</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>104.2</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>104</i>	<i>51 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>87.01</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>87.0</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>79.23</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>79.2</i>	<i>20 - 120</i>				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: 214816 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCSD		Sample ID: LCSD-214816		Units: ug/L		Analysis Date: 16-Jul-2024 22:36				
Client ID:		Run ID: SV-4_472130		SeqNo: 8145913		PrepDate: 15-Jul-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2,4,5-Tetrachlorobenzene	106.1	5.00	100	0	106	49 - 120	102.6	3.32	20	
1,2,4-Trichlorobenzene	93.23	5.00	100	0	93.2	54 - 118	94.45	1.3	20	
1,2-Diphenylhydrazine	101.6	5.00	100	0	102	57 - 134	104.4	2.63	20	
2,4,5-Trichlorophenol	99.39	5.00	100	0	99.4	52 - 115	96.89	2.55	20	
2,4,6-Trichlorophenol	106.3	5.00	100	0	106	56 - 115	104.3	1.9	20	
2,4-Dichlorophenol	93.71	5.00	100	0	93.7	53 - 115	95.3	1.68	20	
2,4-Dimethylphenol	102.6	5.00	100	0	103	53 - 115	103.4	0.751	20	
2,4-Dinitrophenol	110.7	5.00	100	0	111	47 - 115	111.4	0.657	20	
2,4-Dinitrotoluene	93.88	5.00	100	0	93.9	56 - 115	95.15	1.34	20	
2,6-Dinitrotoluene	97.23	5.00	100	0	97.2	57 - 115	98.02	0.808	20	
2-Chloronaphthalene	114.8	5.00	100	0	115	65 - 125	113.3	1.32	20	
2-Chlorophenol	88.44	5.00	100	0	88.4	54 - 115	90.22	2	20	
2-Methylphenol	85.62	5.00	100	0	85.6	53 - 115	87.05	1.66	20	
2-Nitrophenol	97.75	5.00	100	0	97.8	53 - 115	97.45	0.308	20	
3&4-Methylphenol	92.71	5.00	100	0	92.7	48 - 115	91.11	1.74	20	
3,3'-Dichlorobenzidine	104.8	5.00	100	0	105	25 - 115	101.4	3.32	20	
4,6-Dinitro-2-methylphenol	116.5	5.00	100	0	117	51 - 121	120.2	3.11	20	
4-Bromophenyl phenyl ether	111	5.00	100	0	111	49 - 115	120.3	8.02	20	
4-Chloro-3-methylphenol	90.88	5.00	100	0	90.9	51 - 115	92.76	2.05	20	
4-Chlorophenyl phenyl ether	96.58	5.00	100	0	96.6	56 - 115	96.74	0.165	20	
4-Nitrophenol	95.64	5.00	100	0	95.6	26 - 133	93.72	2.02	20	
Acenaphthene	97.95	5.00	100	0	97.9	57 - 115	97.02	0.947	20	
Acenaphthylene	99.61	5.00	100	0	99.6	57 - 118	99.02	0.594	20	
Anthracene	106.7	5.00	100	0	107	65 - 115	106.1	0.569	20	
Benz(a)anthracene	103.9	5.00	100	0	104	53 - 115	101.9	1.9	20	
Benzidine	21.39	5.00	100	0	21.4	10 - 115	22.46	4.87	20	
Benzo(a)pyrene	105	5.00	100	0	105	57 - 115	101.1	3.78	20	
Benzo(b)fluoranthene	119	5.00	100	0	119	54 - 117	107.8	9.9	20 S	
Benzo(g,h,i)perylene	95.29	5.00	100	0	95.3	56 - 115	88.7	7.17	20	
Benzo(k)fluoranthene	101.1	5.00	100	0	101	50 - 115	86.49	15.6	20	
Bis(2-chloroethoxy)methane	103	5.00	100	0	103	54 - 115	105.9	2.78	20	
Bis(2-chloroethyl)ether	88.12	5.00	100	0	88.1	56 - 115	89.82	1.91	20	
Bis(2-chloroisopropyl)ether	78.22	5.00	100	0	78.2	48 - 115	81.7	4.36	20	
Bis(2-ethylhexyl)phthalate	95.48	5.00	100	0	95.5	50 - 115	96.3	0.854	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: 214816 ( 0 )		Instrument: SV-4		Method: SEMIVOLATILE						
LCSD		Sample ID: LCSD-214816		Units: ug/L		Analysis Date: 16-Jul-2024 22:36				
Client ID:		Run ID: SV-4_472130		SeqNo: 8145913		PrepDate: 15-Jul-2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Butyl benzyl phthalate	100.1	5.00	100	0	100	51 - 115	99.89	0.21	20	
Chrysene	98.58	5.00	100	0	98.6	52 - 120	97.44	1.16	20	
Dibenz(a,h)anthracene	102.5	5.00	100	0	102	56 - 115	100.8	1.7	20	
Diethyl phthalate	95.37	5.00	100	0	95.4	57 - 115	99.34	4.08	20	
Dimethyl phthalate	97.55	5.00	100	0	97.6	56 - 115	98.24	0.707	20	
Di-n-butyl phthalate	107.7	5.00	100	0	108	54 - 115	114.9	6.41	20	
Di-n-octyl phthalate	101.8	5.00	100	0	102	49 - 115	93.86	8.14	20	
Fluoranthene	104.7	5.00	100	0	105	58 - 115	114.6	8.98	20	
Fluorene	97.99	5.00	100	0	98.0	56 - 115	98.19	0.208	20	
Hexachlorobenzene	113.1	5.00	100	0	113	54 - 115	125.3	10.2	20	
Hexachlorobutadiene	95.8	5.00	100	0	95.8	51 - 115	95.46	0.358	20	
Hexachlorocyclopentadiene	103.6	5.00	100	0	104	48 - 115	102.5	1.04	20	
Hexachloroethane	88.39	5.00	100	0	88.4	54 - 115	88.91	0.592	20	
Indeno(1,2,3-cd)pyrene	101.7	5.00	100	0	102	51 - 115	100.3	1.43	20	
Isophorone	87.43	5.00	100	0	87.4	55 - 115	89.6	2.45	20	
Nitrobenzene	87.03	5.00	100	0	87.0	40 - 124	86.68	0.405	20	
N-Nitrosodiethylamine	46.08	5.00	50	0	92.2	40 - 130	47.02	2.01	20	
N-Nitrosodimethylamine	81.39	5.00	100	0	81.4	42 - 115	104.1	24.5	20	R
N-Nitroso-di-n-butylamine	45.88	5.00	50	0	91.8	40 - 130	48.09	4.69	20	
N-Nitrosodi-n-propylamine	79.5	5.00	100	0	79.5	55 - 119	82.02	3.11	20	
N-Nitrosodiphenylamine	110.7	5.00	100	0	111	52 - 115	113.4	2.4	20	
Pentachlorobenzene	111.9	5.00	100	0	112	50 - 117	111.3	0.541	20	E
Pentachlorophenol	106.7	5.00	100	0	107	45 - 125	119.8	11.6	20	
Phenanthrene	106.6	5.00	100	0	107	57 - 115	104.9	1.59	20	
Phenol	88.89	5.00	100	0	88.9	38 - 115	89.09	0.226	20	
Pyrene	102.1	5.00	100	0	102	54 - 119	99.19	2.9	20	
Pyridine	68.85	5.00	100	0	68.9	34 - 115	84.46	20.4	20	R
Surr: 2,4,6-Tribromophenol	97.59	5.00	100	0	97.6	42 - 124	104.5	6.83	20	
Surr: 2-Fluorobiphenyl	102.6	5.00	100	0	103	48 - 120	104.2	1.5	20	
Surr: 2-Fluorophenol	84.04	5.00	100	0	84.0	20 - 120	86.24	2.58	20	
Surr: 4-Terphenyl-d14	100.2	5.00	100	0	100	51 - 135	102.1	1.85	20	
Surr: Nitrobenzene-d5	89.07	5.00	100	0	89.1	41 - 120	91.77	2.98	20	
Surr: Phenol-d6	85.21	5.00	100	0	85.2	20 - 120	89.6	5.02	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** 214816 ( 0 )      **Instrument:** SV-4      **Method:** SEMIVOLATILE

LCSD	Sample ID: LCSD1-214816	Units: ug/L			Analysis Date: 18-Jul-2024 22:15					
Client ID:	Run ID: SV-4_472290	SeqNo: 8146952	PrepDate: 15-Jul-2024	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nonylphenol	63.33	5.00	100	0	63.3	40 - 140	0	200	20	R
<i>Surr: 2,4,6-Tribromophenol</i>	<i>115.5</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>115</i>	<i>42 - 124</i>	<i>104.5</i>	<i>10</i>	<i>20</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>108.9</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>109</i>	<i>48 - 120</i>	<i>104.2</i>	<i>4.48</i>	<i>20</i>	
<i>Surr: 2-Fluorophenol</i>	<i>62.21</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>62.2</i>	<i>20 - 120</i>	<i>86.24</i>	<i>32.4</i>	<i>20</i>	R
<i>Surr: 4-Terphenyl-d14</i>	<i>113.4</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>113</i>	<i>51 - 135</i>	<i>102.1</i>	<i>10.5</i>	<i>20</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>79.45</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>79.4</i>	<i>41 - 120</i>	<i>91.77</i>	<i>14.4</i>	<i>20</i>	
<i>Surr: Phenol-d6</i>	<i>80.38</i>	<i>5.00</i>	<i>100</i>	<i>0</i>	<i>80.4</i>	<i>20 - 120</i>	<i>89.6</i>	<i>10.9</i>	<i>20</i>	

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: R471987 ( 0 )		Instrument: VOA9		Method: VOLATILES						
MBLK	Sample ID: VBLKW-240715	Units: ug/L			Analysis Date: 15-Jul-2024 13:34					
Client ID:	Run ID: VOA9_471987	SeqNo: 8140413	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.00								
1,1,2,2-Tetrachloroethane	U	5.00								
1,1,2-Trichloroethane	U	5.00								
1,1-Dichloroethane	U	5.00								
1,1-Dichloroethene	U	5.00								
1,2-Dibromoethane	U	5.00								
1,2-Dichlorobenzene	U	5.00								
1,2-Dichloroethane	U	5.00								
1,2-Dichloropropane	U	5.00								
1,3-Dichlorobenzene	U	5.00								
1,4-Dichlorobenzene	U	5.00								
2-Butanone	U	10.0								
2-Chloroethyl vinyl ether	U	10.0								
Acrolein	U	20.0								
Acrylonitrile	U	10.0								
Benzene	U	5.00								
Bromodichloromethane	U	5.00								
Bromoform	U	5.00								
Bromomethane	U	5.00								
Carbon tetrachloride	U	5.00								
Chlorobenzene	U	5.00								
Chloroethane	U	5.00								
Chloroform	U	5.00								
Chloromethane	U	5.00								
cis-1,3-Dichloropropene	U	5.00								
Dibromochloromethane	U	5.00								
Ethylbenzene	U	5.00								
m,p-Xylene	U	10.0								
Methylene chloride	U	10.0								
Naphthalene	U	5.00								
o-Xylene	U	5.00								
Tetrachloroethene	U	5.00								
Toluene	U	5.00								
trans-1,2-Dichloroethene	U	5.00								

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**Project:** Doty Wastewater Permit  
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**QC BATCH REPORT**

**Batch ID:** R471987 ( 0 )      **Instrument:** VOA9      **Method:** VOLATILES

MBLK	Sample ID: VBLKW-240715	Units: ug/L			Analysis Date: 15-Jul-2024 13:34					
Client ID:	Run ID: VOA9_471987	SeqNo: 8140413	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	U	5.00								
Trichloroethene	U	5.00								
Vinyl chloride	U	2.00								
1,3-Dichloropropene, Total	U	5.00								
Xylenes, Total	U	5.00								
<i>Surr: 1,2-Dichloroethane-d4</i>	58.92	5.00	50	0	118	70 - 126				
<i>Surr: 4-Bromofluorobenzene</i>	48.32	5.00	50	0	96.6	82 - 124				
<i>Surr: Dibromofluoromethane</i>	55.01	5.00	50	0	110	77 - 123				
<i>Surr: Toluene-d8</i>	51.78	5.00	50	0	104	82 - 127				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: R471987 ( 0 )		Instrument: VOA9			Method: VOLATILES					
LCS	Sample ID: VLCSW-240715	Units: ug/L			Analysis Date: 15-Jul-2024 13:13					
Client ID:	Run ID: VOA9_471987	SeqNo: 8140412		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.58	5.00	20	0	103	70 - 130				
1,1,2,2-Tetrachloroethane	21.65	5.00	20	0	108	70 - 120				
1,1,2-Trichloroethane	21.22	5.00	20	0	106	77 - 113				
1,1-Dichloroethane	21.32	5.00	20	0	107	71 - 122				
1,1-Dichloroethene	22.53	5.00	20	0	113	70 - 130				
1,2-Dibromoethane	21.4	5.00	20	0	107	76 - 123				
1,2-Dichlorobenzene	20.47	5.00	20	0	102	77 - 113				
1,2-Dichloroethane	20.61	5.00	20	0	103	70 - 124				
1,2-Dichloropropane	19.76	5.00	20	0	98.8	72 - 119				
1,3-Dichlorobenzene	19.69	5.00	20	0	98.5	78 - 118				
1,4-Dichlorobenzene	19.2	5.00	20	0	96.0	79 - 113				
2-Butanone	45.25	10.0	40	0	113	70 - 130				
2-Chloroethyl vinyl ether	52.45	10.0	40	0	131	60 - 135				
Acrolein	50.48	20.0	40	0	126	70 - 130				
Acrylonitrile	44.31	10.0	40	0	111	70 - 130				
Benzene	20.1	5.00	20	0	101	74 - 120				
Bromodichloromethane	20.04	5.00	20	0	100	74 - 122				
Bromoform	20.41	5.00	20	0	102	73 - 128				
Bromomethane	22.96	5.00	20	0	115	70 - 130				
Carbon tetrachloride	21.73	5.00	20	0	109	71 - 125				
Chlorobenzene	19.39	5.00	20	0	97.0	76 - 113				
Chloroethane	23	5.00	20	0	115	70 - 130				
Chloroform	20.45	5.00	20	0	102	71 - 121				
Chloromethane	20.81	5.00	20	0	104	70 - 129				
cis-1,3-Dichloropropene	21.57	5.00	20	0	108	73 - 127				
Dibromochloromethane	21.06	5.00	20	0	105	77 - 122				
Ethylbenzene	21.52	5.00	20	0	108	77 - 117				
m,p-Xylene	44.04	10.0	40	0	110	77 - 122				
Methylene chloride	22.44	10.0	20	0	112	70 - 127				
Naphthalene	21.99	5.00	20	0	110	70 - 130				
o-Xylene	22.01	5.00	20	0	110	75 - 119				
Tetrachloroethene	21.35	5.00	20	0	107	76 - 119				
Toluene	21.53	5.00	20	0	108	77 - 118				
trans-1,2-Dichloroethene	20.68	5.00	20	0	103	72 - 127				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: R471987 ( 0 )		Instrument: VOA9		Method: VOLATILES						
LCS	Sample ID: VLCSW-240715	Units: ug/L			Analysis Date: 15-Jul-2024 13:13					
Client ID:	Run ID: VOA9_471987	SeqNo: 8140412		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	22.8	5.00	20	0	114	77 - 119				
Trichloroethene	20.37	5.00	20	0	102	79 - 120				
Vinyl chloride	22.84	2.00	20	0	114	70 - 130				
1,3-Dichloropropene, Total	44.37	5.00	40	0	111	70 - 130				
Xylenes, Total	66.05	5.00	60	0	110	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>56.85</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>114</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>52.4</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>83 - 122</i>				
<i>Surr: Dibromofluoromethane</i>	<i>53.96</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>108</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>51.24</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 119</i>				

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: R471987 ( 0 )		Instrument: VOA9			Method: VOLATILES					
LCSD		Sample ID: LCSDW-240715			Units: ug/L		Analysis Date: 15-Jul-2024 22:20			
Client ID:		Run ID: VOA9_471987			SeqNo: 8140419		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.52	5.00	20	0	103	70 - 130	20.58	0.279	20	
1,1,2,2-Tetrachloroethane	19.76	5.00	20	0	98.8	70 - 120	21.65	9.16	20	
1,1,2-Trichloroethane	20.18	5.00	20	0	101	77 - 113	21.22	5.02	20	
1,1-Dichloroethane	23.13	5.00	20	0	116	71 - 122	21.32	8.15	20	
1,1-Dichloroethene	25.23	5.00	20	0	126	70 - 130	22.53	11.3	20	
1,2-Dibromoethane	19.95	5.00	20	0	99.7	76 - 123	21.4	7.02	20	
1,2-Dichlorobenzene	19.44	5.00	20	0	97.2	77 - 113	20.47	5.17	20	
1,2-Dichloroethane	20.04	5.00	20	0	100	70 - 124	20.61	2.81	20	
1,2-Dichloropropane	18.93	5.00	20	0	94.6	72 - 119	19.76	4.31	20	
1,3-Dichlorobenzene	19.68	5.00	20	0	98.4	78 - 118	19.69	0.0768	20	
1,4-Dichlorobenzene	18.75	5.00	20	0	93.8	79 - 113	19.2	2.35	20	
2-Butanone	38.44	10.0	40	0	96.1	70 - 130	45.25	16.3	20	
2-Chloroethyl vinyl ether	40.11	10.0	40	0	100	60 - 135	52.45	26.7	20	R
Acrolein	49.61	20.0	40	0	124	70 - 130	50.48	1.74	20	
Acrylonitrile	41.91	10.0	40	0	105	70 - 130	44.31	5.56	20	
Benzene	19.61	5.00	20	0	98.1	74 - 120	20.1	2.47	20	
Bromodichloromethane	19.33	5.00	20	0	96.6	74 - 122	20.04	3.63	20	
Bromoform	19.04	5.00	20	0	95.2	73 - 128	20.41	6.94	20	
Bromomethane	24.04	5.00	20	0	120	70 - 130	22.96	4.61	20	
Carbon tetrachloride	20.71	5.00	20	0	104	71 - 125	21.73	4.81	20	
Chlorobenzene	19.01	5.00	20	0	95.0	76 - 113	19.39	2	20	
Chloroethane	26.3	5.00	20	0	131	70 - 130	23	13.4	20	S
Chloroform	20.68	5.00	20	0	103	71 - 121	20.45	1.14	20	
Chloromethane	19.96	5.00	20	0	99.8	70 - 129	20.81	4.16	20	
cis-1,3-Dichloropropene	19.2	5.00	20	0	96.0	73 - 127	21.57	11.6	20	
Dibromochloromethane	19.73	5.00	20	0	98.7	77 - 122	21.06	6.49	20	
Ethylbenzene	21.42	5.00	20	0	107	77 - 117	21.52	0.489	20	
m,p-Xylene	43.37	10.0	40	0	108	77 - 122	44.04	1.53	20	
Methylene chloride	22.99	10.0	20	0	115	70 - 127	22.44	2.39	20	
Naphthalene	19.68	5.00	20	0	98.4	70 - 130	21.99	11.1	20	
o-Xylene	21.21	5.00	20	0	106	75 - 119	22.01	3.7	20	
Tetrachloroethene	20.65	5.00	20	0	103	76 - 119	21.35	3.32	20	
Toluene	21.25	5.00	20	0	106	77 - 118	21.53	1.28	20	
trans-1,2-Dichloroethene	22.9	5.00	20	0	115	72 - 127	20.68	10.2	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID: R471987 ( 0 )		Instrument: VOA9		Method: VOLATILES						
LCSD	Sample ID: LCSDW-240715	Units: ug/L			Analysis Date: 15-Jul-2024 22:20					
Client ID:	Run ID: VOA9_471987	SeqNo: 8140419		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
trans-1,3-Dichloropropene	19.57	5.00	20	0	97.8	77 - 119	22.8	15.3	20	
Trichloroethene	20.87	5.00	20	0	104	79 - 120	20.37	2.4	20	
Vinyl chloride	23.17	2.00	20	0	116	70 - 130	22.84	1.47	20	
1,3-Dichloropropene, Total	38.77	5.00	40	0	96.9	70 - 130	44.37	13.5	20	
Xylenes, Total	64.58	5.00	60	0	108	75 - 122	66.05	2.25	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>57.07</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>114</i>	<i>70 - 130</i>	<i>56.85</i>	<i>0.382</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>52.47</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>83 - 122</i>	<i>52.4</i>	<i>0.149</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>56.67</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>113</i>	<i>73 - 126</i>	<i>53.96</i>	<i>4.89</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>51.78</i>	<i>5.00</i>	<i>50</i>	<i>0</i>	<i>104</i>	<i>81 - 119</i>	<i>51.24</i>	<i>1.04</i>	<i>20</i>	

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

<b>Batch ID:</b> 214726 ( 0 )	<b>Instrument:</b> Skalar 02	<b>Method:</b> CBOD BY SM5210B-2011
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<b>MBLK</b>	Sample ID: <b>MBLK-214726</b>	Units: <b>mg/L</b>	Analysis Date: <b>17-Jul-2024 15:14</b>							
Client ID:	Run ID: <b>Skalar 02_472142</b>	SeqNo: <b>8143596</b>	PrepDate: <b>12-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	U	2.00								

<b>LCS</b>	Sample ID: <b>LCS-214726</b>	Units: <b>mg/L</b>	Analysis Date: <b>17-Jul-2024 15:14</b>							
Client ID:	Run ID: <b>Skalar 02_472142</b>	SeqNo: <b>8143595</b>	PrepDate: <b>12-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	209	2.00	198	0	106.6	115.4				

<b>DUP</b>	Sample ID: <b>HS24070481-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>17-Jul-2024 15:14</b>							
Client ID:	Run ID: <b>Skalar 02_472142</b>	SeqNo: <b>8143594</b>	PrepDate: <b>12-Jul-2024</b> DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	U	2.00					2.07	0	20	

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** 214792 ( 0 )      **Instrument:** Skalar 02      **Method:** BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011

<b>MBLK</b>	Sample ID: <b>MBLK-214792</b>	Units: <b>mg/L</b>			Analysis Date: <b>18-Jul-2024 15:00</b>				
Client ID:		Run ID: <b>Skalar 02_472280</b>	SeqNo: <b>8146590</b>	PrepDate: <b>13-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Biochemical Oxygen Demand      U      2.00

<b>LCS</b>	Sample ID: <b>LCS-214792</b>	Units: <b>mg/L</b>			Analysis Date: <b>18-Jul-2024 15:00</b>				
Client ID:		Run ID: <b>Skalar 02_472280</b>	SeqNo: <b>8146589</b>	PrepDate: <b>13-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Biochemical Oxygen Demand      184.7      2.00      198      0      93.3 84.6 - 115.4

<b>DUP</b>	Sample ID: <b>HS24070593-08DUP</b>	Units: <b>mg/L</b>			Analysis Date: <b>18-Jul-2024 15:00</b>				
Client ID:		Run ID: <b>Skalar 02_472280</b>	SeqNo: <b>8146588</b>	PrepDate: <b>13-Jul-2024</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Biochemical Oxygen Demand      U      2.00      -0.73      0 20

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** 215016 ( 0 )      **Instrument:** UV-2450      **Method:** AMMONIA AS N BY SM4500 NH3-B-F-2011

<b>MBLK</b>	Sample ID: <b>MBLK-215016</b>	Units: <b>mg/L</b>	Analysis Date: <b>18-Jul-2024 13:34</b>							
Client ID:	Run ID: <b>UV-2450_472275</b>	SeqNo: <b>8146448</b>	PrepDate: <b>18-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      U      0.050

<b>LCS</b>	Sample ID: <b>LCS-215016</b>	Units: <b>mg/L</b>	Analysis Date: <b>18-Jul-2024 13:34</b>							
Client ID:	Run ID: <b>UV-2450_472275</b>	SeqNo: <b>8146447</b>	PrepDate: <b>18-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      0.471      0.050      0.5      0      94.2      85 - 115

<b>MS</b>	Sample ID: <b>HS24070600-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>18-Jul-2024 13:34</b>							
Client ID:	Run ID: <b>UV-2450_472275</b>	SeqNo: <b>8146445</b>	PrepDate: <b>18-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      0.534      0.050      0.5      0.082      90.4      80 - 120

<b>MS</b>	Sample ID: <b>HS24070521-05MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>18-Jul-2024 13:34</b>							
Client ID:	Run ID: <b>UV-2450_472275</b>	SeqNo: <b>8146443</b>	PrepDate: <b>18-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      0.492      0.050      0.5      0.016      95.2      80 - 120

<b>MSD</b>	Sample ID: <b>HS24070600-01MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>18-Jul-2024 13:34</b>							
Client ID:	Run ID: <b>UV-2450_472275</b>	SeqNo: <b>8146446</b>	PrepDate: <b>18-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      0.536      0.050      0.5      0.082      90.8      80 - 120      0.534      0.374      20

<b>MSD</b>	Sample ID: <b>HS24070521-05MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>18-Jul-2024 13:34</b>							
Client ID:	Run ID: <b>UV-2450_472275</b>	SeqNo: <b>8146444</b>	PrepDate: <b>18-Jul-2024</b>	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Nitrogen, Ammonia (as N)      0.503      0.050      0.5      0.016      97.4      80 - 120      0.492      2.21      20

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

<b>Batch ID:</b> 215121 ( 0 )		<b>Instrument:</b> UV-2450		<b>Method:</b> PHOSPHORUS BY E365.3-1978					
<b>MBLK</b>	Sample ID: <b>MBLK-215121</b>	Units: <b>mg/L</b>		Analysis Date: <b>22-Jul-2024 14:02</b>					
Client ID:	Run ID: <b>UV-2450_472444</b>	SeqNo: <b>8150038</b>		PrepDate: <b>22-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) U 0.0500

<b>LCS</b>	Sample ID: <b>LCS-215121</b>	Units: <b>mg/L</b>		Analysis Date: <b>22-Jul-2024 14:02</b>					
Client ID:	Run ID: <b>UV-2450_472444</b>	SeqNo: <b>8150037</b>		PrepDate: <b>22-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) 0.269 0.0500 0.25 0 108 80 - 120

<b>MS</b>	Sample ID: <b>HS24070366-03MS</b>	Units: <b>mg/L</b>		Analysis Date: <b>22-Jul-2024 14:02</b>					
Client ID:	Run ID: <b>UV-2450_472444</b>	SeqNo: <b>8150035</b>		PrepDate: <b>22-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) 0.254 0.0500 0.25 0 102 80 - 120

<b>MSD</b>	Sample ID: <b>HS24070366-03MSD</b>	Units: <b>mg/L</b>		Analysis Date: <b>22-Jul-2024 14:02</b>					
Client ID:	Run ID: <b>UV-2450_472444</b>	SeqNo: <b>8150036</b>		PrepDate: <b>22-Jul-2024</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Phosphorus, Total (As P) 0.275 0.0500 0.25 0 110 80 - 120 0.254 7.94 20

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** 215190 ( 0 )      **Instrument:** WetChem\_HS      **Method:** TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011

<b>MBLK</b>	Sample ID: <b>MBLK-215190</b>	Units: <b>mg/L</b>			Analysis Date: <b>23-Jul-2024 15:00</b>				
Client ID:	Run ID: <b>WetChem_HS_472609</b>	SeqNo: <b>8153254</b>	PrepDate: <b>23-Jul-2024</b>	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Nitrogen, Total Kjeldahl      U      0.50

<b>LCS</b>	Sample ID: <b>LCS-215190</b>	Units: <b>mg/L</b>			Analysis Date: <b>23-Jul-2024 15:00</b>				
Client ID:	Run ID: <b>WetChem_HS_472609</b>	SeqNo: <b>8153253</b>	PrepDate: <b>23-Jul-2024</b>	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Nitrogen, Total Kjeldahl      20.11      0.50      20      0      101      85 - 115

<b>MS</b>	Sample ID: <b>HS24070906-01MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>23-Jul-2024 15:00</b>				
Client ID:	Run ID: <b>WetChem_HS_472609</b>	SeqNo: <b>8153251</b>	PrepDate: <b>23-Jul-2024</b>	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Nitrogen, Total Kjeldahl      21.17      0.50      20      1.784      96.9      75 - 125

<b>MSD</b>	Sample ID: <b>HS24070906-01MSD</b>	Units: <b>mg/L</b>			Analysis Date: <b>23-Jul-2024 15:00</b>				
Client ID:	Run ID: <b>WetChem_HS_472609</b>	SeqNo: <b>8153252</b>	PrepDate: <b>23-Jul-2024</b>	DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Nitrogen, Total Kjeldahl      21.44      0.50      20      1.784      98.3      75 - 125      21.17      1.29      20

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

<b>Batch ID:</b> R471778 ( 0 )	<b>Instrument:</b> UV-2450	<b>Method:</b> HEXAVALENT CHROMIUM BY SW7196A
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<b>MBLK</b>	Sample ID: <b>MBLK-R471778</b>	Units: <b>mg/L</b>	Analysis Date: <b>12-Jul-2024 10:53</b>							
Client ID:	Run ID: <b>UV-2450_471778</b>	SeqNo: <b>8134647</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Chromium, Hexavalent U 0.0100

<b>LCS</b>	Sample ID: <b>LCS-R471778</b>	Units: <b>mg/L</b>	Analysis Date: <b>12-Jul-2024 10:53</b>							
Client ID:	Run ID: <b>UV-2450_471778</b>	SeqNo: <b>8134646</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Chromium, Hexavalent 0.254 0.0100 0.25 0 102 80 - 120

<b>MS</b>	Sample ID: <b>HS24070485-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>12-Jul-2024 10:53</b>							
Client ID:	Run ID: <b>UV-2450_471778</b>	SeqNo: <b>8134649</b>	PrepDate: DF: <b>50</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Chromium, Hexavalent 12.9 0.500 12.5 0 103 86 - 117

<b>MSD</b>	Sample ID: <b>HS24070485-01MSD</b>	Units: <b>mg/L</b>	Analysis Date: <b>12-Jul-2024 10:53</b>							
Client ID:	Run ID: <b>UV-2450_471778</b>	SeqNo: <b>8134648</b>	PrepDate: DF: <b>50</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Chromium, Hexavalent 12.65 0.500 12.5 0 101 86 - 117 12.9 1.96 15

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** R471869 ( 0 )      **Instrument:** ICS-Integrion      **Method:** ANIONS BY E300.0, REV 2.1, 1993

<b>MBLK</b>		Sample ID: <b>MBLK</b>		Units: <b>mg/L</b>		Analysis Date: <b>12-Jul-2024 21:18</b>				
Client ID:		Run ID: <b>ICS-Integrion_471869</b>		SeqNo: <b>8136879</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Fluoride	U	0.100								
Nitrogen, Nitrate (As N)	U	0.100								
Nitrogen, Nitrite (As N)	U	0.100								
Nitrate/Nitrite (as N)	U	0.200								
Sulfate	U	0.500								

<b>LCS</b>		Sample ID: <b>LCS</b>		Units: <b>mg/L</b>		Analysis Date: <b>12-Jul-2024 21:24</b>				
Client ID:		Run ID: <b>ICS-Integrion_471869</b>		SeqNo: <b>8136880</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.219	0.100	4	0	105	90 - 110				
Chloride	20.76	0.500	20	0	104	90 - 110				
Fluoride	4.345	0.100	4	0	109	90 - 110				
Nitrogen, Nitrate (As N)	4.12	0.100	4	0	103	90 - 110				
Nitrogen, Nitrite (As N)	4.181	0.100	4	0	105	90 - 110				
Nitrate/Nitrite (as N)	8.301	0.200	8	0	104	90 - 110				
Sulfate	21.74	0.500	20	0	109	90 - 110				

<b>LCSD</b>		Sample ID: <b>LCSD</b>		Units: <b>mg/L</b>		Analysis Date: <b>12-Jul-2024 21:30</b>				
Client ID:		Run ID: <b>ICS-Integrion_471869</b>		SeqNo: <b>8136881</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.244	0.100	4	0	106	90 - 110	4.219	0.61	20	
Chloride	20.64	0.500	20	0	103	90 - 110	20.76	0.556	20	
Fluoride	4.391	0.100	4	0	110	90 - 110	4.345	1.06	20	
Nitrogen, Nitrate (As N)	4.081	0.100	4	0	102	90 - 110	4.12	0.954	20	
Nitrogen, Nitrite (As N)	4.146	0.100	4	0	104	90 - 110	4.181	0.843	20	
Nitrate/Nitrite (as N)	8.227	0.200	8	0	103	90 - 110	8.301	0.898	20	
Sulfate	21.78	0.500	20	0	109	90 - 110	21.74	0.139	20	

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** R471869 ( 0 )      **Instrument:** ICS-Integrion      **Method:** ANIONS BY E300.0, REV 2.1, 1993

<b>MS</b>		Sample ID: <b>HS24070555-01MS</b>		Units: <b>mg/L</b>		Analysis Date: <b>12-Jul-2024 21:48</b>			
Client ID:		Run ID: <b>ICS-Integrion_471869</b>		SeqNo: <b>8136883</b>		PrepDate:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Bromide	1.874	0.100	2	0	93.7	80 - 120			
Chloride	25.1	0.500	10	15.67	94.3	80 - 120			
Fluoride	2.114	0.100	2	0.1334	99.0	80 - 120			
Nitrogen, Nitrate (As N)	1.98	0.100	2	0.1322	92.4	80 - 120			
Nitrogen, Nitrite (As N)	1.91	0.100	2	0	95.5	80 - 120			
Nitrate/Nitrite (as N)	3.89	0.200	4	0.1322	93.9	80 - 120			
Sulfate	13.87	0.500	10	4.105	97.7	80 - 120			

<b>MSD</b>		Sample ID: <b>HS24070555-01MSD</b>		Units: <b>mg/L</b>		Analysis Date: <b>12-Jul-2024 21:54</b>			
Client ID:		Run ID: <b>ICS-Integrion_471869</b>		SeqNo: <b>8136884</b>		PrepDate:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Bromide	1.879	0.100	2	0	94.0	80 - 120	1.874	0.298	20
Chloride	25.15	0.500	10	15.67	94.7	80 - 120	25.1	0.171	20
Fluoride	2.082	0.100	2	0.1334	97.4	80 - 120	2.114	1.49	20
Nitrogen, Nitrate (As N)	1.984	0.100	2	0.1322	92.6	80 - 120	1.98	0.182	20
Nitrogen, Nitrite (As N)	1.911	0.100	2	0	95.5	80 - 120	1.91	0.0576	20
Nitrate/Nitrite (as N)	3.894	0.200	4	0.1322	94.1	80 - 120	3.89	0.121	20
Sulfate	13.95	0.500	10	4.105	98.5	80 - 120	13.87	0.57	20

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** R472056 ( 0 )      **Instrument:** Balance1      **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

<b>MBLK</b>	Sample ID: <b>WMBLK-07162024</b>	Units: <b>mg/L</b>			Analysis Date: <b>16-Jul-2024 09:00</b>				
Client ID:	Run ID: <b>Balance1_472056</b>	SeqNo: <b>8141723</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable)      U      10.0

<b>LCS</b>	Sample ID: <b>WLCS-07162024</b>	Units: <b>mg/L</b>			Analysis Date: <b>16-Jul-2024 09:00</b>				
Client ID:	Run ID: <b>Balance1_472056</b>	SeqNo: <b>8141722</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable)      1018      10.0      1000      0      102      85 - 115

<b>DUP</b>	Sample ID: <b>HS24070713-03 DUP</b>	Units: <b>mg/L</b>			Analysis Date: <b>16-Jul-2024 09:00</b>				
Client ID:	Run ID: <b>Balance1_472056</b>	SeqNo: <b>8141721</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable)      1500      10.0                          1508      0.532      20

<b>DUP</b>	Sample ID: <b>HS24070710-01 DUP</b>	Units: <b>mg/L</b>			Analysis Date: <b>16-Jul-2024 09:00</b>				
Client ID:	Run ID: <b>Balance1_472056</b>	SeqNo: <b>8141711</b>		PrepDate:			DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable)      1800      10.0                          1820      1.1      20

The following samples were analyzed in this batch: HS24070558-01



**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** R472184 ( 0 )      **Instrument:** WetChem\_HS      **Method:** PH BY SM4500H+ B-2011

**DUP**      Sample ID: **HS24070884-02DUP**      Units: **pH Units**      Analysis Date: **18-Jul-2024 08:47**  
Client ID:      Run ID: **WetChem\_HS\_472184** SeqNo: **8144683**      PrepDate:      DF: **1**  
Analyte      Result      PQL      SPK Val      SPK Ref Value      %REC      Control Limit      RPD Ref Value      %RPD      RPD Limit Qual

pH	8.41	0.100						8.48	0.829	10
Temp Deg C @pH	21.2	0						21.1	0.473	10

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

Batch ID:	R472259 ( 0 )	Instrument:	Balance1	Method:	TOTAL SUSPENDED SOLIDS BY SM 2540D-2011					
<b>MBLK</b>	Sample ID: <b>WMBLK-07182024</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Jul-2024 11:00</b>						
Client ID:	Run ID: <b>Balance1_472259</b>	SeqNo: <b>8146082</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	U	2.50								
<b>LCS</b>	Sample ID: <b>WLCS-07182024</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Jul-2024 11:00</b>						
Client ID:	Run ID: <b>Balance1_472259</b>	SeqNo: <b>8146081</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	90	2.50	100	0	90.0	85 - 115				
<b>DUP</b>	Sample ID: <b>HS24070696-01 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Jul-2024 11:00</b>						
Client ID:	Run ID: <b>Balance1_472259</b>	SeqNo: <b>8146066</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	99.67	2.50					96.67	3.06	20	
<b>DUP</b>	Sample ID: <b>HS24070688-01 DUP</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Jul-2024 11:00</b>						
Client ID:	Run ID: <b>Balance1_472259</b>	SeqNo: <b>8146061</b>		PrepDate:			DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	10.75	2.50					11.5	6.74	20	

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** R472568 ( 0 )      **Instrument:** Skalar 02      **Method:** DISSOLVED OXYGEN BY SM4500-O G

<b>DUP</b>	Sample ID: <b>HS24070555-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>23-Jul-2024 15:07</b>							
Client ID:	Run ID: <b>Skalar 02_472568</b>	SeqNo: <b>8152478</b>	PrepDate:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oxygen, Dissolved	9.82	1.00					9.74	0.818	20
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The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** R472600 ( 0 )      **Instrument:** TOC\_05      **Method:** TOTAL ORGANIC CARBON BY SW9060A

<b>MBLK</b>	Sample ID: <b>MBLK-07192024</b>	Units: <b>mg/L</b>			Analysis Date: <b>22-Jul-2024 11:15</b>				
Client ID:	Run ID: <b>TOC_05_472600</b>	SeqNo: <b>8152979</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      U      1.00

<b>LCS</b>	Sample ID: <b>LCS-07192024</b>	Units: <b>mg/L</b>			Analysis Date: <b>22-Jul-2024 20:10</b>				
Client ID:	Run ID: <b>TOC_05_472600</b>	SeqNo: <b>8153023</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      9.748      1.00      10      0      97.5      85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-07192024</b>	Units: <b>mg/L</b>			Analysis Date: <b>22-Jul-2024 11:48</b>				
Client ID:	Run ID: <b>TOC_05_472600</b>	SeqNo: <b>8152981</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      9.352      1.00      10      0      93.5      85 - 115      9.748      4.15      20

<b>MS</b>	Sample ID: <b>HS24070801-02MS</b>	Units: <b>mg/L</b>			Analysis Date: <b>22-Jul-2024 14:58</b>				
Client ID:	Run ID: <b>TOC_05_472600</b>	SeqNo: <b>8153009</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Organic Carbon, Total      11.44      1.00      10      2.352      90.9      80 - 120

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

**Batch ID:** R472823 ( 0 )      **Instrument:** WetChem\_HS      **Method:** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993

<b>MBLK</b>	Sample ID: <b>MBLK-R472823</b>	Units: <b>mg/L</b>				Analysis Date: <b>25-Jul-2024 14:00</b>				
Client ID:	Run ID: <b>WetChem_HS_472823</b>	SeqNo: <b>8157772</b>	PrepDate:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      U      15.0

<b>LCS</b>	Sample ID: <b>LCS-R472823</b>	Units: <b>mg/L</b>				Analysis Date: <b>25-Jul-2024 14:00</b>				
Client ID:	Run ID: <b>WetChem_HS_472823</b>	SeqNo: <b>8157771</b>	PrepDate:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      101      15.0      100      0      101      85 - 115

<b>MS</b>	Sample ID: <b>HS24070491-02MS</b>	Units: <b>mg/L</b>				Analysis Date: <b>25-Jul-2024 14:00</b>				
Client ID:	Run ID: <b>WetChem_HS_472823</b>	SeqNo: <b>8157774</b>	PrepDate:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      50      15.0      50      2      96.0      80 - 120

<b>MSD</b>	Sample ID: <b>HS24070491-02MSD</b>	Units: <b>mg/L</b>				Analysis Date: <b>25-Jul-2024 14:00</b>				
Client ID:	Run ID: <b>WetChem_HS_472823</b>	SeqNo: <b>8157773</b>	PrepDate:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      49      15.0      50      2      94.0      80 - 120      50      2.02      20

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

<b>Batch ID:</b> R472827 ( 0 )	<b>Instrument:</b> Balance1	<b>Method:</b> OIL & GREASE (HEM) BY E1664A
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<b>MBLK</b>	Sample ID: <b>WMBLK-07252024</b>	Units: <b>mg/L</b>	Analysis Date: <b>25-Jul-2024 08:00</b>							
Client ID:	Run ID: <b>Balance1_472827</b>	SeqNo: <b>8157917</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease U 2.00

<b>LCS</b>	Sample ID: <b>LCS-07252024</b>	Units: <b>mg/L</b>	Analysis Date: <b>25-Jul-2024 08:00</b>							
Client ID:	Run ID: <b>Balance1_472827</b>	SeqNo: <b>8157914</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 40.4 2.00 40 0 101 78 - 114

<b>LCSD</b>	Sample ID: <b>LCSD-07252024</b>	Units: <b>mg/L</b>	Analysis Date: <b>25-Jul-2024 08:00</b>							
Client ID:	Run ID: <b>Balance1_472827</b>	SeqNo: <b>8157915</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 44.2 2.00 40 0 110 78 - 114 40.4 8.98 18

<b>MS</b>	Sample ID: <b>HS24070558-01MS</b>	Units: <b>mg/L</b>	Analysis Date: <b>25-Jul-2024 08:00</b>							
Client ID: <b>SB-57</b>	Run ID: <b>Balance1_472827</b>	SeqNo: <b>8157884</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Oil and Grease 42.7 2.00 40 0.9524 104 78 - 114

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QC BATCH REPORT**

<b>Batch ID:</b> R472973 ( 0 )	<b>Instrument:</b> Skalar 03	<b>Method:</b> ALKALINITY BY -2011
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<b>MBLK</b>	Sample ID: <b>MBLK-07262024</b>	Units: <b>mg/L</b>	Analysis Date: <b>26-Jul-2024 10:11</b>							
Client ID:	Run ID: <b>Skalar 03_472973</b>	SeqNo: <b>8160549</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) U 5.00

<b>LCS</b>	Sample ID: <b>LCS-07262024</b>	Units: <b>mg/L</b>	Analysis Date: <b>26-Jul-2024 10:16</b>							
Client ID:	Run ID: <b>Skalar 03_472973</b>	SeqNo: <b>8160550</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 957.1 5.00 1000 0 95.7 85 - 115

<b>LCSD</b>	Sample ID: <b>LCSD-07262024</b>	Units: <b>mg/L</b>	Analysis Date: <b>26-Jul-2024 10:22</b>							
Client ID:	Run ID: <b>Skalar 03_472973</b>	SeqNo: <b>8160551</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 953.5 5.00 1000 0 95.4 85 - 115 957.1 0.377 20

<b>DUP</b>	Sample ID: <b>HS24070558-01DUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>26-Jul-2024 10:41</b>							
Client ID: <b>SB-57</b>	Run ID: <b>Skalar 03_472973</b>	SeqNo: <b>8160554</b>	PrepDate: DF: <b>1</b>							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3) 1072 5.00 1086 1.31 20

The following samples were analyzed in this batch: HS24070558-01

**Client:** SKA Consulting, L.P.  
**Project:** Doty Wastewater Permit  
**WorkOrder:** HS24070558

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

<b>Acronym</b>	<b>Description</b>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

<b>Agency</b>	<b>Number</b>	<b>Expire Date</b>
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

Sample Receipt Checklist

Work Order ID: HS24070558

Date/Time Received: 12-Jul-2024 11:50

Client Name: SKA

Received by: Monica Smith

Completed By: <u>/S/ Hoa Tran</u>	12-Jul-2024 12:33	Reviewed by: <u>/S/ Bernadette A. Fini</u>	12-Jul-2024 16:25
eSignature	Date/Time	eSignature	Date/Time

Matrices: w Carrier name: Client

- |   |   |                             |   |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 1 Page(s)                                       |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | COC IDs:319686                                  |
| Samplers name present on COC?                           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |

Temperature(s)/Thermometer(s):	1.1uc/1.5c	ir33
Cooler(s)/Kit(s):	52354	
Date/Time sample(s) sent to storage:	07/12/2024 1235	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
pH adjusted?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
pH adjusted by:	Hoa Tran	

Login Notes: Sample SB-57 Metals pH > 2(4) Preserved with 0.5ml HNO3  
On 07/12/2024 at 1215pm. Acid Lot #324065308  
Final pH (1)

Client Contacted:	Date Contacted:	Person Contacted:
Contacted By:	Regarding:	
Comments:		
Corrective Action:		



Cincinnati, OH  
+1 513 733 5336

Fort Collins, CO  
+1 970 490 1511

Everett, WA  
+1 425 356 2600

Holland, MI  
+1 616 399 6070

# Chain of Custody Form

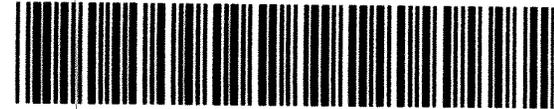
Page 1 of 1

COC ID: 319686

HS24070558

SKA Consulting, L.P.  
Duty Wastewater Permit

WV



ALS Project Manager:

Customer Information		Project Information			
Purchase Order	5019-0003	Project Name	Duty Wastewater Permit	A	624_Wdump (VOA 624) 7 day HT
Work Order		Project Number		B	625_Wdump (SVOA 625/Pest/PCB)
Company Name	SKA Consulting, L.P.	Bill To Company	SKA Consulting, L.P.	C	200.8 Low (Special List)
Send Report To	Mike Schultz	Invoice Attn	Rebecca Fonseca - AP	D	300_W (Cl, NO3, F, SO4, Br, ALK Res -d/TDS, pH)
Address	1888 Stebbins Drive	Address	1888 Stebbins Drive	E	BOD 5210B (BOD/CBOD/Diss Oxy/CR:+6/CR+3)
	Suite 100		Suite 100	F	COD (COD/TON/T-Phos/TOC)
City/State/Zip	Houston, TX 77043	City/State/Zip	Houston TX 77043	G	O&G_1664_W_HS (O&G)
Phone	(713) 266-6056	Phone	(713) 256-6056	H	TSS_W 2540D (TSS)
Fax	(713) 266-0996	Fax	(713) 256-0996	I	SUB_Available Cyanide (ALS Holland)
e-Mail Address	mike.schultz@skaconsulting.com	e-Mail Address	rebecca.fonseca@skaconsulting.com	J	Sub_MercuryLow (ALS Holland)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-57	7-12-24	1040	W		25	X	X	X	X	X	X	X	X	X	X	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*PMK*  
*NO DUP, NO FIELD BLANK*

Sampler(s) Please Print & Sign <i>Ryan R...</i>		Shipment Method		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hr			Results Due Date:	
Relinquished by: <i>Ryan R...</i>		Date: 7-12-24	Time: 1150	Received by: <i>[Signature]</i>		Notes: SKA Duty Wastewater Permit		
Relinquished by: <i>[Signature]</i>		Date: 7-12-24	Time: 1150	Received by (Laboratory): <i>[Signature]</i>		Cooler ID: 52354	Cooler Temp: 10	QC Package: (Check One Box Below) <input checked="" type="checkbox"/> Level II Std. CC <input type="checkbox"/> TRRP Checklist <input type="checkbox"/> Level II Std. CC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SUD: B/CLP
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):				

Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-NaHSO<sub>4</sub> 7-Other 8-4°C 9-5035



**ALS**

10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

Date:

Name:

Comp:

**CUSTODY SEAL**

Seal Broken By:

HT

Time: 1150

Date:

07/12

any:

SKA

52354



right solutions.  
right partner.

July 26, 2024

Bernadette Fini  
ALS Environmental  
10450 Stancliff Rd  
Suite 210  
Houston, TX 77099

Work Order: **HN2404270**

Re: **HS24070558**

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

**Chelsey Cook**

**/S/ CHELSEY COOK**

**Project Manager**



# Narrative Documents



**Client:** ALS Environmental  
**Project:** HS24070558

**Work Order:** HN2404270  
**Date Received:** 17-Jul-2024

### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

#### **Sample Receipt**

1 water sample was received for analysis at ALS Environmental on 17-Jul-2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

# SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting limits.

For a full listing of sample results, continue to the Sample Results section of this Report.



**CLIENT ID: SB-57**

**Lab ID: HN2404270-001**

<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>	<b>Method</b>
Mercury	2.28		0.200	0.500	ng/L	EPA 1631E



## Sample Receipt Information

# SAMPLE SUMMARY



**Client:** ALS Environmental  
**Project:** HS24070558  
**Workorder:** HN2404270

<b>Laboratory Sample ID</b>	<b>Client Sample ID</b>	<b>Sample Matrix</b>	<b>Collection Date</b>	<b>Date Received</b>
HN2404270-001	SB-57	WATER	07/12/24 10:40	07/17/24 09:30



10450 Stancliff Rd, Ste 210  
 Houston, TX 77099  
**T:** +1 281 530 5656  
**F:** +1 281 530 5887  
**www.alsglobal.com**

## Subcontract Chain of Custody

**SAMPLING STATE:** Texas

**COC ID:** 26322

**SUBCONTRACT TO:**

ALS Group USA, Corp.  
 3352 - 128th Ave  
 Holland, MI 494249263

**Phone:** +1 616 399 6070

**CUSTOMER INFORMATION:**

**Company:** ALS Houston  
**Contact:** Bernadette A. Fini  
**Address:** 10450 Stancliff Rd, Ste 210  
**Phone:** +1 281 530 5656  
**Email:** Bernadette.fini@alsglobal.com  
**Alternate Contact:** Jumoke M. Lawal  
**Email:** jumoke.lawal@alsglobal.com

**INVOICE INFORMATION:**

**Company:** ALS Houston  
**Contact:** Accounts Payable  
**Address:** 10450 Stancliff Rd, Ste 210  
**Phone:** +1 281 530 5656  
**Reference:** HS24070558  
**TSR:** Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
1. HS24070558-01	SB-57	Water	12 Jul 2024 10:40
	SUB_Available Cyanide		26 Jul 2024
	Sub_MercuryLow		26 Jul 2024

**Comments:** Please analyze for the analysis listed above.  
 Send report to the emails shown above.

**QC Level:** STD (Laboratory Standard QC: method blank and LCS required)

Environmental Division  
 Holland  
 Work Order Reference  
**HN2404270**



Telephone : +1 616 399 6070

Relinquished By: \_\_\_\_\_  
 Received By: \_\_\_\_\_  
 Cooler ID(s): \_\_\_\_\_

Date/Time: 7/15/24 1800  
 Date/Time: 7-17-24 0950  
 Temperature(s): 3.4 C @ 2 8057

RIGHT SOLUTIONS | RIGHT PARTNER



# ALS Holland Sample Receiving Checklist

Received by:

[Signature]

Date/Time:

7-17-24 0930

Carrier Name:

fedex

Shipping container/cooler in good condition?

Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No / Not Present

Custody seals intact on sample bottles?

Yes / No /  Not Present

Chain of Custody present?

Yes / No

COC signed when relinquished and received?

Yes / No

COC agrees with sample labels?

Yes / No

Samples in proper container/bottle?

Yes / No

Sample containers intact?

Yes / No

Sufficient sample volume for indicated test?

Yes / No

All samples received within holding time?

Yes / No

Container/Temp Blank temperature in compliance?

Yes / No

Temperature(s) (°C):

34/34

Thermometer(s):

072

Sample(s) received on ice?

Yes / No

Matrix/Matrices:

water

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

7-18-24

Water – VOA vials have zero headspace?

Yes / No /  No Vials

Water – pH acceptable upon receipt?

Yes / No / N/A

pH strip lot #: \_\_\_\_\_ < 2 \_\_\_\_\_ > 12  Other \_\_\_\_\_

pH adjusted (note adjustments below)?

Yes /  No / N/A

pH adjusted by:

\_\_\_\_\_

Login Notes:



# Miscellaneous Forms

## REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
V	The Continuing Calibration Verification was outside of control criteria
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

### Holland Laboratory Certifications<sup>1</sup>

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	1/1/2024	12/31/2024
Colorado	UST		6/21/2024	6/30/2025
Connecticut	Drinking Water (Secondary)	PH-0155	1/23/2023	12/31/2024
Florida	NELAP (Primary)	E871106	7/1/2024	6/30/2025
Illinois	NELAP (Secondary)	200076	12/14/2023	12/31/2024
Indiana	Drinking Water (Secondary)	C-MI-08	4/4/2024	9/4/2026
Iowa	State Specific	403	9/18/2023	9/1/2025
Kansas	NELAP (Secondary)	E-10411	7/26/2023	7/31/2024
Kentucky	Waste Water	KY98004	12/5/2023	12/31/2024
Kentucky	UST	120474	6/24/24	6/30/2025
Michigan	Drinking Water (Primary)	0022	12/19/2023	9/4/2026
Minnesota	NELAP (Secondary)	026-999-449	12/29/2023	12/31/2024
New Jersey	NELAP (Secondary)	MI015	7/1/2024	6/30/2025
New York	Drinking Water (Secondary)	12128	3/29/2024	4/1/2025
North Dakota	State Specific	R-192	9/12/2023	6/30/2024
Ohio	Drinking Water (Secondary)	87783	7/1/2024	6/30/2025
Pennsylvania	NELAP (Secondary)	68-03827	6/14/2024	7/31/2025
Texas	NELAP (Secondary)	T104704494	2/1/2024	1/31/2025
USDA	Domestic CA	Soil-MI-007	8/21/2023	2/18/2025
USDA	Soil Import	P330-19-00039	3/3/2023	3/3/2026
West Virginia	State Specific	355	6/24/2024	8/31/2025
Wisconsin	State Specific	399084510	8/11/2023	8/31/2024

<sup>1</sup> - Scope available upon request

# ANALYST SUMMARY



**Client:** ALS Environmental  
**Project:** HS24070558

**Work Order:** HN2404270

---

**Sample Name:** SB-57  
**Laboratory Code:** HN2404270-001  
**Sample Matrix:** WATER

**Date Collected:** 07/12/24  
**Date Received:** 07/17/24

---

<b>Analysis Method</b>	<b>Preparation Lot</b>	<b>Prepared By</b>	<b>Analysis Lot</b>	<b>Analyzed By</b>
EPA 1631E	1558568	Amber Luke	2423074	Amber Luke
OIA 1677	1559050	Mike Burkall	2422691	Mike Burkall

---



# Sample Results



# Metals

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24070558  
**Sample Matrix:** WATER  
**Sample Name:** SB-57  
**Laboratory Code:** HN2404270-001

**Work Order:** HN2404270  
**Date Collected:** 07/12/24 10:40  
**Date Received:** 07/17/24 09:30

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	2.28	ng/L	0.500	1	07/23/24 23:48	07/22/24 22:42	



# General Chemistry

# Analytical Report

**Client:** ALS Environmental  
**Project:** HS24070558  
**Sample Matrix:** WATER  
**Sample Name:** SB-57  
**Laboratory Code:** HN2404270-001

**Work Order:** HN2404270  
**Date Collected:** 07/12/24 10:40  
**Date Received:** 07/17/24 09:30

## General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	07/23/24 15:38	07/23/24 10:09	



# QC Summary Forms



# Metals

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070558  
**Sample Matrix:** WATER  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1558568-001

**Work Order:** HN2404270  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/23/24 23:09	07/22/24 22:43	

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070558  
**Sample Matrix:** WATER  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1558568-002

**Work Order:** HN2404270  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/23/24 23:56	07/22/24 22:43	

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070558  
**Sample Matrix:** WATER  
  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1558568-003

**Work Order:** HN2404270  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/24/24 00:50	07/22/24 22:43	

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070558  
**Sample Matrix:** WATER  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1558568-004

**Work Order:** HN2404270  
**Date Collected:** NA  
**Date Received:** NA

## Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	07/24/24 01:37	07/22/24 22:43	

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070558  
**Sample Matrix:** WATER

**Work Order:**HN2404270  
**Date Analyzed:**07/23/2024  
**Date Extracted:**07/22/2024

## Laboratory Control Sample Summary

**Metals**  
**Mercury**

**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:**ng/L  
**Analysis Lab Lot:**2423074

<b>Sample Name</b>	<b>Laboratory Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Laboratory Control Sample	QC-1558568-005	4.86	5	97.2	77-123

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070558  
**Sample Matrix:** WATER

**Work Order:** HN2404270  
**Date Analyzed:** 07/24/2024  
**Date Extracted:** 07/22/2024

## Laboratory Control Sample Summary

**Metals**  
**Mercury**

**Analysis Method:** EPA 1631E  
**Prep Method:** Method

**Units:** ng/L  
**Analysis Lab Lot:** 2423074

<b>Sample Name</b>	<b>Laboratory Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Laboratory Control Sample	QC-1558568-006	4.66	5	93.2	77-123



# General Chemistry

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070558  
**Sample Matrix:** WATER  
**Sample Name:** Method Blank  
**Laboratory Code:** QC-1559050-001

**Work Order:** HN2404270  
**Date Collected:** NA  
**Date Received:** NA

## General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	07/23/24 15:39	07/23/24 10:10	

# QA/QC Report

**Client:** ALS Environmental  
**Project:** HS24070558  
**Sample Matrix:** WATER

**Work Order:** HN2404270  
**Date Analyzed:** 07/23/2024  
**Date Extracted:** 07/23/2024

## Laboratory Control Sample Summary General Chemistry Parameters Available Cyanide

**Analysis Method:** OIA 1677  
**Prep Method:** Method

**Units:** µg/L  
**Analysis Lab Lot:** 2422691

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1559050-002	46.4	50	92.8	82-132

# TITAN 40HD

40mil HDPE GEOMEMBRANE



Titan 40HD is a high-density polyethylene (HDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require excellent chemical resistance and endurance properties.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Nominal Thickness	ASTM D 5199	mil (mm)	40 (1.0)
Density	ASTM D 792	mg/l	≥0.94
Tensile Strength – modified type IV Die – modified type IV Die Yield Stress Yield Stress Break Stress Yield Strain 33mm Gauge Break Strain 50mm Gauge	ASTM D 6693	ppi (kN/m) ppi (kN/m) % %	84 (15) 152 (27) 12 700
Tear Resistance	ASTM D 1004	lbs (N)	28 (125)
Stress Cracking	ASTM D 5397	Hours	500
Puncture Resistance	ASTM D 4833	lbs (N)	72 (320)
Carbon Black Content	ASTM D 6370	%	≥2.0
Carbon Black Dispersion	ASTM D 5596		CAT 1 or 2
Maximum Continuous use Temperature		°C	60

**NOTES:**

1. Machine Direction (MD) and cross machine direction (XMD) average values should be on the basis of 5 test specimens each direction. Yield elongation is calculated using a gauge length of 1.3 inches.
2. Other methods such as ASTM D 4218 or microwave methods are acceptable if an appropriate correlation can be established.
3. Carbon black dispersion for 10 different views: 9 in categories 1 and 2, with 1 allowed in category 3.

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## Titan Environmental Containment

Toll free: 1-866-327-1957 | [info@titanenviro.com](mailto:info@titanenviro.com) | [TitanEnviro.com](http://TitanEnviro.com)

# TITAN 60HD

## 60mil SMOOTH HDPE GEOMEMBRANE



Titan HD is a smooth high-density polyethylene (HDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require excellent chemical resistance and endurance properties. This product specification meets GRI-GM13.

TESTED PROPERTY	TEST METHOD	FREQUENCY	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Thickness Lowest individual reading	ASTM D 5199	every roll	mil (mm) 2	60 (1.50) 54 (1.35)
Density	ASTM D 1505	200,000 lbs (90,000 kg)	g/cm (min)	0.940
Tensile Properties (each direction) Strength at Break Strength at Yield Elongation at Break Elongation at Yield	ASTM D 6693, Type IV Dumbbell, 2 ipm (50mm/min) G.L. 2.0 in (50mm) G.L. 1.3 in (33mm)	20,000 lbs (9,000 kg)	lb/in-width (N/mm) lb/in-width (N/m) % %	228 (40) 126 (22) 700 12
Tear Resistance	ASTM D 1004	45,000 lbs (20,000 kg)	lb (N)	42 (187)
Puncture Resistance	ASTM D 4833	45,000 lbs (20,000 kg)	lb (N)	108 (480)
Carbon Black Content	ASTM D 1603*/4218	20,000 lbs (9,000 kg)	% (range)	2.0 – 3.0
Carbon Black Dispersion	ASTM D 5596	45,000 lbs (20,000 kg)	Note <sup>1</sup>	Note <sup>1</sup>
Notched Constant Tensile Load	ASTM D 5397, Appendix	200,000 lbs (90,000 kg)	hr	500
Oxidative Induction Time	ASTM D 3895, 200 °C; O <sub>2</sub> , 1 atm	200,000 lbs (90,000 kg)	min	>100
<b>TYPICAL ROLL DIMENSIONS</b>				
Roll Length <sup>2</sup>			ft (m)	560 (171)
Roll Width <sup>2</sup>			ft (m)	22.5 (6.86)
Roll Area			ft <sup>2</sup> (m <sup>2</sup> )	12,600 (1,171)

**NOTES:**

- Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.
  - Roll Lengths and widths have a tolerance of ±1%. HDPE Smooth is available in rolls weighing approximately 4,000 lb (1,800 kg). All geomembranes have dimensional stability of ±2% when tested according to ASTM D 1204 and LTB of <-77 ° when tested according to ASTM D 746
- \*Modified

This data is provided for informational purposes only. Titan Environmental Containment Ltd. makes no warranties as to the suitability or the fitness for a specific use or merchantability of the products referred to, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability from resulting loss or damage. This information is subject to change without notice, please check with Titan Environmental Containment Ltd. for current updates.

### Titan Environmental Containment

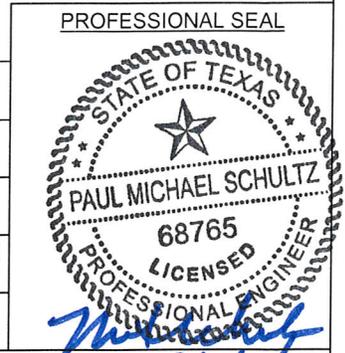
Toll free: 1-866-327-1957 | info@titanenviro.com | [TitanEnviro.com](https://TitanEnviro.com)



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-1**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION ----	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION 3/4/21

REMARKS: Location (Latitude, Longitude): 29.683320°, -95.590914°

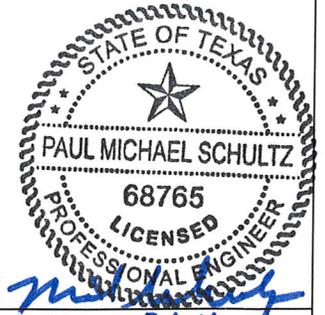
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5	X	80	1.1	FILL		0'-3.5' Fill: Clay cap, brown with orange, dark brown, and light yellow-brown mottling, high plasticity, medium stiff, moist, some calcareous nodules.	
			0.9			2.5' Grades to dark gray with gray mottling.	
				LW		3.5'-4 Landfill waste material.	
				NR		4'-5' No recovery.	
Bottom of borehole at 5.0 feet.							



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-2**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/20/2019</b>	DATE COMPLETED <b>6/20/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ----	GROUT TYPE ----	GROUND ELEVATION ----	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>3/4/21</b>

REMARKS: Location (Latitude, Longitude): 29.682295°, -95.594420°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0		80	0	FILL		0'-3.75' Fill: Silty clay, light brown with orange mottling, medium plasticity, medium stiff, moist, some iron concretions.	
0			0			2.8'-3' Sand, orange, very fine-grained, loose, moist.	
				LW		3' Clay, light brown with orange and light gray mottling, high plasticity, stiff, moist.	
				NR		3.75'-4' Landfill waste material.	
5						4'-5' No recovery.	
Bottom of borehole at 5.0 feet.							



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-3**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/20/2019</b>	DATE COMPLETED <b>6/20/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	
DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION ---	

REMARKS: Location (Latitude, Longitude): 29.682290°, -95.592679°

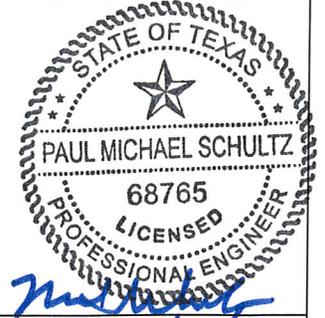
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0-5		100	0.0	FILL		0'-6.5' Fill: Clay, light brown with orange, dark gray, gray, red, and dark brown mottling, high plasticity, soft, some silty lenses, calcareous nodules.	
5-6.5		50	0.0			3.5'-4' sand, orange, very fine-grained, loose, very moist.	
6.5-7.5		50	0.0	LW		4' clay, reddish-orange, high plasticity, stiff, moist.	
7.5-10.0		50	0.4	NR		4.5' grades to dark gray with light gray mottling, medium stiff.	
6.5-7.5		50	0.4	LW		6.5'-7.5' Landfill waste material.	
7.5-10.0		50	0.4	NR		7.5'-10' No recovery.	
10.0						Bottom of borehole at 10.0 feet.	



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 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-4**

PROFESSIONAL SEAL



*Paul Michael Schultz*  
 5/14/19

PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION ---

REMARKS: Location (Latitude, Longitude): 29.682300°, -95.591034°

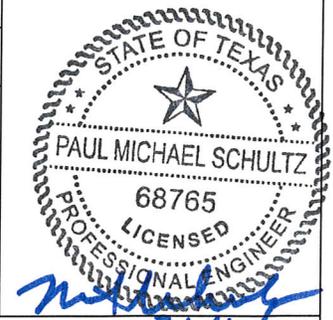
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0-5	X	30	0.9	FILL		0'-1.5' Fill: Clay, brown with orange and reddish-light brown mottling, high plasticity, soft, moist, some gravel. 0.5' Grades to dark gray. 1.5'-5' No recovery.	
				NR			
5-10		40	0.7	FILL		5'-6.8' Fill: Clay, dark gray, high plasticity, soft, moist, some gravel. 5.5' Grades to silty clay, brown with orange and reddish-light brown mottling, medium plasticity, soft, very moist.	
				LW			6.8'-7' Landfill waste material. 7'-10' No recovery.
10						Bottom of borehole at 10.0 feet.	



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
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**SOIL BORING SB-5**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/20/2019</b>	DATE COMPLETED <b>6/20/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION ----	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION 3/4/21

REMARKS: Location (Latitude, Longitude): 29.681350°, -95.594452°

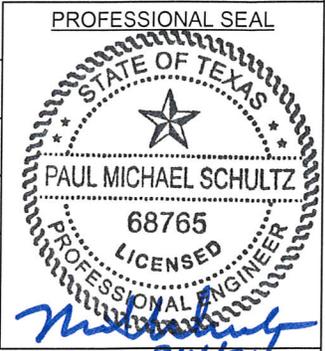
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5	X	60	0.3	FILL		0'-2.8' Fill: Clay, light brown with orange, dark gray, yellow, and dark brown mottling, high plasticity, soft, moist.	
			0.0	LW		2' Grades to clay, brown with dark brown and yellow-orange mottling, medium stiff.	
				NR		2.8'-3' Landfill waste material. 3'-5' No recovery.	
Bottom of borehole at 5.0 feet.							



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-6**

PAGE 1 OF 1



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/20/2019</b>	DATE COMPLETED <b>6/20/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION ----	

DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION
		----

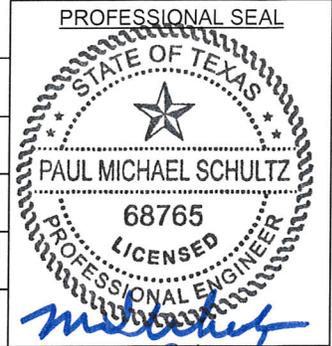
REMARKS: Location (Latitude, Longitude): 29.681070°, -95.592667°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
		100	0.3 0.2	FILL		0'-4.5' Fill: Clay, brown with orange, red, dark brown, and light gray mottling, high plasticity, soft, moist, some calcareous nodules.	
5				LW		4.5'-5' Landfill waste material.	
Bottom of borehole at 5.0 feet.							



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-7**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	

DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>314121</b>
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REMARKS: Location (Latitude, Longitude): 29.681078°, -95.590844°

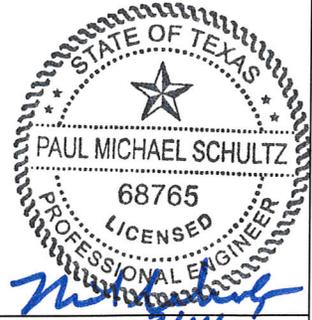
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels			
5 10 15	X	40	0.7	FILL		0'-2' Fill: Silty clay, light brown with orange and black mottling, medium plasticity, soft, moist.				
						1' Grades to clay, brown with orange, red, and dark brown mottling, medium stiff.				
						2'-5' No recovery.				
						0.8		FILL		5'-9.5' Fill: Clay, brown with orange, red, and dark brown mottling, medium plasticity, medium stiff, moist.
										8' grades to dark gray with gray mottling, high plasticity, stiff.
										9.5'-10' No recovery.
						0.9		FILL		10'-10.8' Clay, dark gray with gray mottling, high plasticity, stiff, moist.
										10.8'-11' Landfill waste material.
										11'-15' No recovery.
									20	
Bottom of borehole at 15.0 feet.										



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
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**SOIL BORING SB-8**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION ---

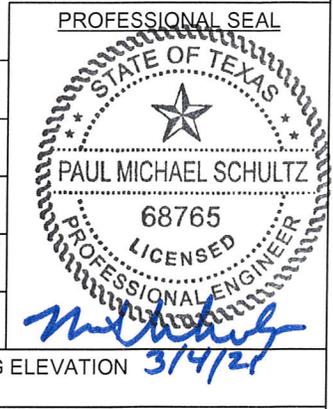
REMARKS: Location (Latitude, Longitude): 29.681207°, -95.588749°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0.0		100	0.0			0'-7.5' Fill: Clay, brown with yellow, green, and orange mottling, high plasticity, medium stiff, moist.	
0.0			0.0	FILL			
5			0.2				
8.0		80	0.1			7.5'-9' Landfill waste material.	
				LW			
10						9'-10' No recovery.	
				NR			
						Bottom of borehole at 10.0 feet.	



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-9**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Katie Brice</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION <b>102.2</b>	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>314/21</b>

REMARKS: Location (Latitude, Longitude): 29.679874°, -95.594305°

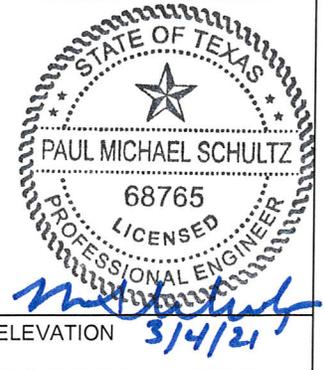
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0	X						
10		100	2.0	FILL		0'-1.5' Silty clay, yellow with gray, black, and orange mottling, low plasticity, soft, moist. 1'-1.5' Calcareous nodule layer. 1.5' Grades to clay, light gray with red mottling, high plasticity. 2' Grades to silty clay, greenish-gray with red, orange, yellow, and dark gray mottling, medium plasticity.	
5			1.0			5' Grades to clay, brown with green, dark gray, and light gray mottling, high plasticity.	
		50	0.5			7' Grades to black. 7.5'-10' No recovery.	
				NR			
10						Bottom of borehole at 10.0 feet.	



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-10**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Katie Brice</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	

DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION
		3/4/21

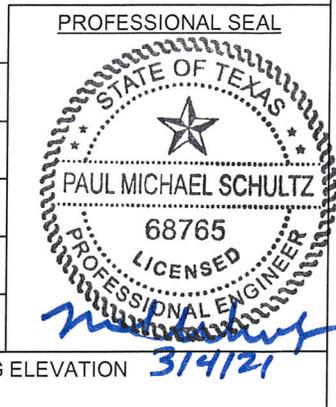
REMARKS: Location (Latitude, Longitude): 29.679857°, -95.592490°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0		80	0.4	FILL		0'-3.8' Fill: Silty clay, yellow-orange with red and light brown mottling, medium plasticity, soft, moist.	
0.7						2' Grades to dark gray with gray mottling, calcareous nodules.	
3.8				LW		3.8'-4' Landfill waste material.	
4.5				NR		4'-5' No recovery.	
5.0						Bottom of borehole at 5.0 feet.	



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-11**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	

DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION
		<b>319121</b>

REMARKS: Location (Latitude, Longitude): 29.679884°, -95.590904°

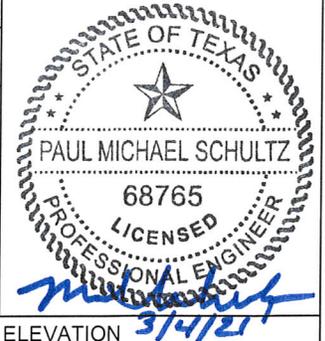
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0-4'		80	0.3	FILL		0'-4' Fill: Clay, brown with light gray and orange mottling, high plasticity, medium stiff, moist.	
4-5'				NR		4'-5' No recovery.	
5-10'		100	0.5	FILL		5'-10' Fill: Clay, dark brown with light gray and orange mottling, high plasticity, medium stiff, moist.	
7.5'-8'			0.5			7.5'-8' Clayey sand, light brown, fine-grained, loose, moist.	
8'						8' Grades to clay, dark gray with dark brown, light gray, and orange mottling, high plasticity, medium stiff, moist.	
10.0'						Bottom of borehole at 10.0 feet.	



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
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**SOIL BORING SB-12**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	
DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION ---	

REMARKS: Location (Latitude, Longitude): 29.679942°, -95.589306°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0-9'		100	0.1		FILL	0'-9' Fill: Clay, brown with black, light brown, orange, and red mottling, high plasticity, medium stiff, moist.	
4'		0.4				4' Grades to light brown with orange and brown mottling, abundant silt.	
5'		0.4				5' Grades to dark brown with black and greenish gray mottling, medium plasticity, soft, moist, gravel lenses.	
9'-10'		0.5		LW		9'-10' Landfill waste material.	
Bottom of borehole at 10.0 feet.							



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
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**SOIL BORING SB-13**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	

DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION
		<b>3/4/21</b>

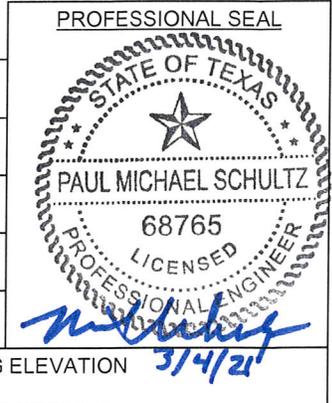
REMARKS: Location (Latitude, Longitude): 29.678623°, -95.594148°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0-10'		100	1.3		FILL	0'-10' Fill: Silty clay, light gray with orange and dark brown mottling, medium plasticity, soft, moist.	
5	X	100	0.8			3.5'-4.5' Calcareous nodule layer. 4' Grades to dark gray.	
		100	1.1			5' Grades to dark gray with light gray and orange mottling.	
		100	1.2			6' Grades to orange with light gray and dark gray mottling.	
10						7.5' Grades to clay, dark gray with light gray and orange mottling, high plasticity, medium stiff.	
						Bottom of borehole at 10.0 feet.	



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-14**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION ----	

DEPTH TO WATER DURING DRILLING ▽	STATIC DEPTH TO GROUNDWATER ▼	TOP OF CASING ELEVATION
		<b>3/4/21</b>

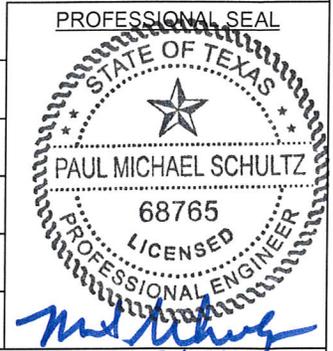
REMARKS: Location (Latitude, Longitude): 29.678580°, -95.592221°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0						0'-10' Fill: Clay, gray with light gray, dark gray, and orange mottling, high plasticity, soft, moist.	
0.8		100				1.5'-1.6' Calcareous nodule layer.	
1.2						2.5'-2.6' Calcareous nodule layer.	
5	X			FILL		5' Grades to dark gray with light gray and orange mottling, stiff.	
10		100				Bottom of borehole at 10.0 feet.	



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-15**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION ----	
DEPTH TO WATER DURING DRILLING ▽	STATIC DEPTH TO GROUNDWATER ▼	TOP OF CASING ELEVATION <b>3/4/21</b>	

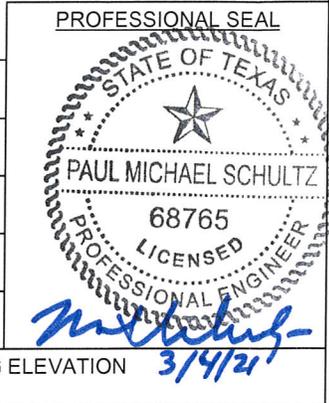
REMARKS: Location (Latitude, Longitude): 29.678488°, -95.590504°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5	X	60	0.4	FILL		0'-3' Fill: Clay, gray with dark brown, orange, and yellow mottling, high plasticity, medium stiff, moist, calcareous nodules and gravel. 1'-1.4' Increased sand content.	
			0.3	NR		3'-5' No recovery.	
10		100	0.3	FILL		5'-10' Fill: Clay, gray with dark brown, dark gray, and orange mottling, high plasticity, soft, moist, iron concretions present.	
			0.4			8.5' medium stiff	
Bottom of borehole at 10.0 feet.							



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-16**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION ----	
DEPTH TO WATER DURING DRILLING ▽		STATIC DEPTH TO GROUNDWATER ▼	TOP OF CASING ELEVATION <b>3/4/21</b>

REMARKS: Location (Latitude, Longitude): 29.678679°, -95.588953°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0-4'		80	0.4	FILL		0'-4' Fill: Clay, brown and dark brown with orange mottling, high plasticity, stiff, moist.	
4-5'			0.3	NR		4'-5' No recovery.	
5-10'		100	0.5	FILL		5'-10' Fill: Clay, light brown with orange mottling, medium plasticity, soft, moist, some sand.	
8'			0.4			8' Grades to dark gray with orange mottling, high plasticity, medium stiff.	
Bottom of borehole at 10.0 feet.							



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-17**

PROFESSIONAL SEAL

PAUL MICHAEL SCHULTZ  
 68765  
 LICENSED PROFESSIONAL ENGINEER  
 3/4/21

PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/20/2019</b>	DATE COMPLETED <b>6/20/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION $\nabla$

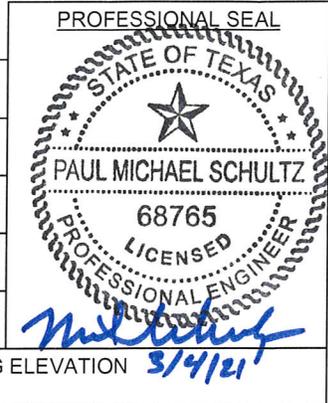
REMARKS: Location (Latitude, Longitude): 29.676893°, -95.590719°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5	X	60	0.5	FILL		0'-0.3' Concrete.	
			0.8			0.3'-3' Fill: Clay, dark gray with orange, black, and brown mottling, high plasticity, moist, soft.	
5		90		NR		1.5'-2' Sand, light brown, fine-grained, loose.	
						3'-5' No recovery.	
10	X	60	0.6	FILL		5'-9' Fill: Clay, dark gray with orange, black, and brown mottling, high plasticity, moist, soft.	
			0.7				
10				CH		9'-9.5' Clay, greenish-gray with yellow mottling, medium plasticity, stiff, moist, some silt content.	
				NR		9.5'-10' No recovery.	
15			0.4	CH		10'-11' Clay, greenish-gray with yellow mottling, medium plasticity, stiff, moist, some silt content.	
			0.6	CL		11'-12' Silty clay, greenish-gray with yellow-orange mottling, low plasticity, medium stiff, moist.	
15				SC		12'-13' Clayey sand, greenish-gray, very fine-grained, medium dense, wet.	
				NR		13'-15' No recovery.	
						Bottom of borehole at 15.0 feet.	



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-18**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION ----	
DEPTH TO WATER DURING DRILLING ▽		STATIC DEPTH TO GROUNDWATER ▼	TOP OF CASING ELEVATION <b>3/4/21</b>

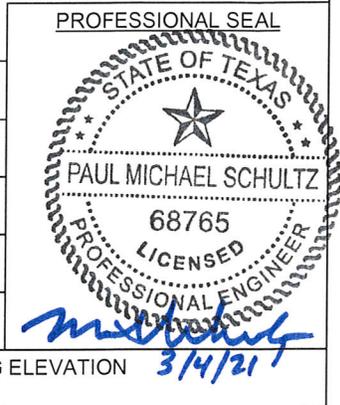
REMARKS: Location (Latitude, Longitude): 29.676658°, -95.590054°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5	X	80	0.5	FILL		0'-4' Fill: Clay, brown with dark brown, orange, red, and light brown mottling, high plasticity, stiff, moist, some gravel.	
			0.4	NR		4'-5' No recovery.	
10	X	80	0.1	FILL		5'-8' Fill: Clay, brown with dark brown, orange, red, and light brown mottling, high plasticity, stiff, moist, some gravel.	
			0.0	CL		8'-9' Silty clay, dark brown with black mottling, low plasticity, soft, moist.	
			0.0	NR		9'-10' No recovery.	
15	X	100	0.0	CL		10'-10.5' Silty clay, dark brown with black mottling, low plasticity, soft, moist.	
			0.1	CH		10.5'-15' Clay, brown with orange and dark brown mottling, high plasticity, soft, moist.	
Bottom of borehole at 15.0 feet.							



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-19**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>3/14/21</b>

REMARKS: Location (Latitude, Longitude): 29.676608°, -95.589392°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0		100	0.1	FILL		0'-4' Fill: Clay and gravel.	
5		100	0.0	CH		4'-10.5' Clay, gray with black mottling, high plasticity, soft, moist. 5' Some iron concretions present.	
10		60	0.0	CL		10.5-11.5' Silty clay, light brown with orange mottling, medium plasticity, stiff, moist.	
			0.0	SP		11.5'-13' Sand, light brown with orange mottling, very fine-grained, loose, well sorted, moist. 12' Becomes saturated.	
				NR		13'-15' No recovery.	
15						Bottom of borehole at 15.0 feet.	



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-20**

PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER <b>--- / ---</b>	SCREEN TYPE / SLOT SIZE <b>--- / ---</b>	
GRAVEL PACK TYPE <b>---</b>	GROUT TYPE <b>---</b>	GROUND ELEVATION <b>---</b>	
DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION	

PROFESSIONAL SEAL

STATE OF TEXAS  
 PAUL MICHAEL SCHULTZ  
 68765  
 LICENSED PROFESSIONAL ENGINEER  
 3/4/21

REMARKS: Location (Latitude, Longitude): 29.676428°, -95.589911°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0.0		100	0.0	FILL		0'-6' Fill: Clay.	
5.0	X		0.0				
6.0			0.8			6'-14.5' Silty clay, brown with orange mottling, medium plasticity, stiff, dry, abundant calcareous nodules, increasing silt content with depth. 7' moist	
8.0			0.6			8' Grades to light brown with orange and gray mottling.	
10.0			0.5	CL		10' Grades to light brown with yellow-orange mottling, soft.	
12.0	X	100	0.7				
14.0			0.7	SC		14.5'-15' Clayey sand, orange with light brown mottling, very fine-grained, medium dense, wet.	
15.0			0.7			Bottom of borehole at 15.0 feet.	



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-21**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION ----	
DEPTH TO WATER DURING DRILLING $\nabla$ <b>11.0 ft.</b>	STATIC DEPTH TO GROUNDWATER $\nabla$ ----	TOP OF CASING ELEVATION <b>3141.21</b>	

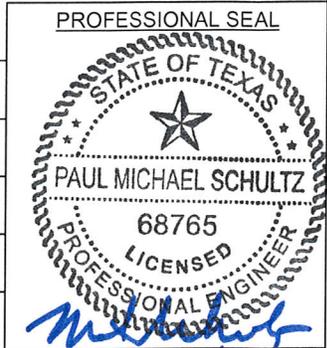
REMARKS: Location (Latitude, Longitude): 29.676620°, -95.588866°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0.0		80		FILL		0'-4' Fill: Clay, brown and dark brown.	
0.2				NR		4'-5' No recovery.	
5				CH		5'-9' Clay, brown with orange and dark gray mottling, high plasticity, medium stiff, moist, increasing silt content with depth.	
10		100		CL		8' Grades to friable, abundant calcareous nodules.	
				CL		9'-11' Silty clay, light brown with orange and brown mottling, low plasticity, soft, very moist, some sand throughout. 10' wet	$\nabla$
		60		SC		11'-13' Clayey sand, brown with orange mottling, very fine-grained, loose, saturated.	
				NR		13'-15' No recovery.	
15						Bottom of borehole at 15.0 feet.	



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-22**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Katie Brice</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	

DEPTH TO WATER DURING DRILLING $\nabla$ <b>13.0 ft.</b>	STATIC DEPTH TO GROUNDWATER $\nabla$ ---	TOP OF CASING ELEVATION <b>3/4/21</b>
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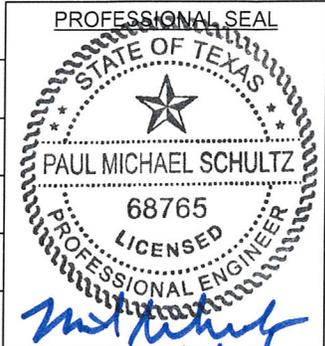
REMARKS: Location (Latitude, Longitude): 29.676253°, -95.590496°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
			1.4			0'-0.25' Concrete	
		60	0.9	FILL		0.25'-3' Fill: Clay, dark brown with dark gray and orange mottling, high plasticity, stiff, dry.	
				NR		3'-5' No recovery.	
5			0.8			5'-10' Clay, gray with yellow-orange and dark gray mottling, high plasticity, soft, moist, trace calcareous nodules.	
		100	0.9	CH		8' Grades to orange, iron concretions, increasing silt content with depth.	
10			1.0			10'-14' Silty clay, orange with light gray mottling, low plasticity, soft, moist, iron concretions.	
		80	0.8	CL		13' saturated	$\nabla$
				NR		14'-15' No recovery.	
15						Bottom of borehole at 15.0 feet.	



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-23**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Katie Brice</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION ----	
DEPTH TO WATER DURING DRILLING $\nabla$ <b>13.0 ft.</b>	STATIC DEPTH TO GROUNDWATER $\nabla$ ----	TOP OF CASING ELEVATION <b>3/4/21</b>	

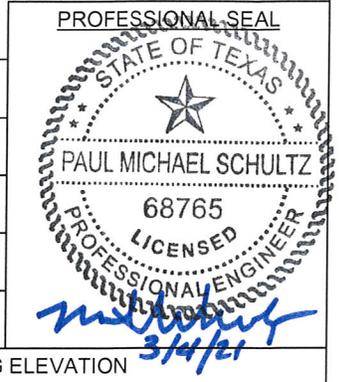
REMARKS: Location (Latitude, Longitude): 29.675781°, -95.590471°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
						0'-0.25' Concrete	
						0.25'-1' Fill: Gravel, asphalt.	
		100	0.6			1'-10' Clay, brown with yellow-orange, gray, and black mottling, high plasticity, soft, moist, some silt content.	
			0.7				
5	X			CH		5' Grades to light gray and brown with black mottling, calcareous nodules throughout.	
		100	0.8			7' Grades to orange.	
			0.4			8' Grades to orange with black and light gray mottling, medium plasticity, increasing silt content.	
10			0.8			10'-14' Silty clay, orange with black mottling, low plasticity, soft, moist.	
		80	1.0	CL		13' saturated	$\nabla$
				NR		14'-15' No recovery.	
15						Bottom of borehole at 15.0 feet.	



SKA Consulting, L.P.  
 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-24**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Katie Brice</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/18/2019</b>	DATE COMPLETED <b>6/18/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER --- / ---	SCREEN TYPE / SLOT SIZE --- / ---	
GRAVEL PACK TYPE ---	GROUT TYPE ---	GROUND ELEVATION ---	

DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION
		---

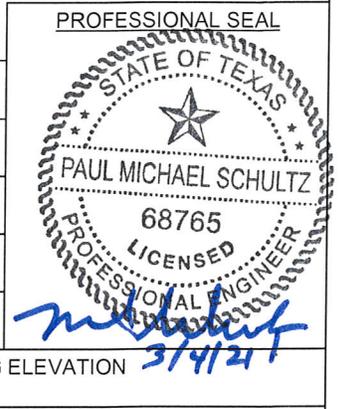
REMARKS: Location (Latitude, Longitude): 29.675728°, -95.589857°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
80	X	80	0.6	FILL		0'-2' Fill: Clay, brown, stiff, dry, friable, some gravel and organics present.	
			0.9	CH		2'-4' Clay, brown with orange and gray mottling, high plasticity, soft, moist.	
5	X	100		NR		4'-5' No recovery.	
			1.0	CH		5'-10' Clay, gray with yellow and orange mottling, high plasticity, stiff, moist, increasing silt content with depth. 6'-6.5' Calcareous nodule layer.	
			1.1	CH			
10	X	40	0.9	CL		10'-11' Silty clay, orange with light gray mottling, medium plasticity, medium stiff, moist.	
			1.1	SC		11'-12' Clayey sand, orange, very-fine grained, loose, well-sorted, saturated.	
15				NR		12'-15' No recovery.	
			Bottom of borehole at 15.0 feet.				



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**SOIL BORING SB-25**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Chris Siegel</b>	
SAMPLING METHOD <b>4' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER <b>---- / ----</b>	SCREEN TYPE / SLOT SIZE <b>---- / ----</b>	
GRAVEL PACK TYPE <b>---</b>	GROUT TYPE <b>----</b>	GROUND ELEVATION <b>84</b>	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>3/4/21</b>

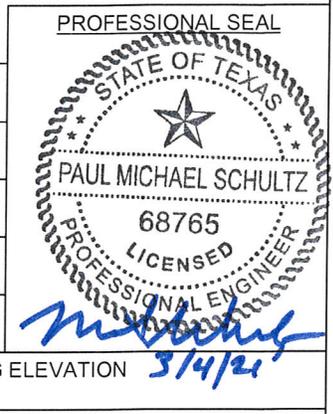
REMARKS: Location (Latitude, Longitude): 29.68396°, -95.589598°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5	X	50	0.5	FILL		0'-2' Fill: Silty clay, gray, high plasticity, stiff, moist.	
				NR		2'-4' No recovery.	
				LW		4'-6' Landfill waste material.	
				NR		6'-8' No recovery.	
						Bottom of borehole at 8.0 feet.	



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**SOIL BORING SB-26**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Chris Siegel</b>	
SAMPLING METHOD <b>4' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION <b>80</b>	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>3/4/21</b>

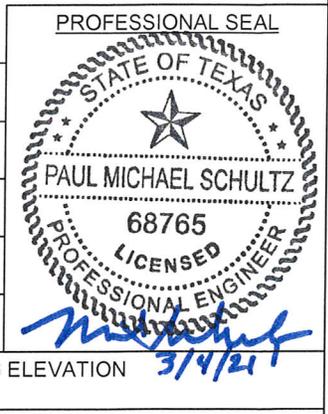
REMARKS: Location (Latitude, Longitude): 29.683922°, -95.588157°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
	X	50	1.7	FILL		0'-2' Fill: Silty clay, gray, high plasticity, stiff, moist.	
				NR		2'-4' No recovery. Refusal at 4 feet.	
							Bottom of borehole at 4.0 feet.



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**SOIL BORING SB-27**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Chris Siegel</b>	
SAMPLING METHOD <b>4' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER <b>---- / ----</b>	SCREEN TYPE / SLOT SIZE <b>---- / ----</b>	
GRAVEL PACK TYPE <b>---</b>	GROUT TYPE <b>----</b>	GROUND ELEVATION <b>82</b>	
DEPTH TO WATER DURING DRILLING $\nabla$ <b>4.0 ft.</b>	STATIC DEPTH TO GROUNDWATER $\nabla$ <b>----</b>	TOP OF CASING ELEVATION <b>3/4/21</b>	

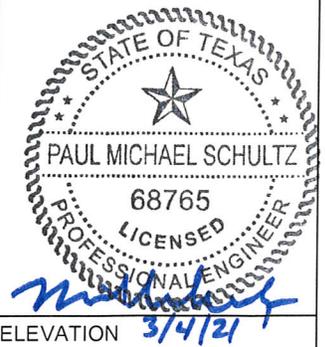
REMARKS: Location (Latitude, Longitude): 29.683421°, -95.588452°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5	X	50	0.4	FILL		0'-2' Fill: Clay, gray, high plasticity, stiff, moist.	$\nabla$
				NR		2'-4' No recovery.	
		FILL			4'-5' Fill: Silty clay, gray, medium plasticity, soft, saturated.		
		NR			5'-8' No recovery. Refusal at 8 feet.		
						Bottom of borehole at 8.0 feet.	



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 1888 Stebbins Drive, Suite 100  
 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Chris Siegel</b>	
SAMPLING METHOD <b>4' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER <b>---- / ----</b>	SCREEN TYPE / SLOT SIZE <b>---- / ----</b>	
GRAVEL PACK TYPE <b>---</b>	GROUT TYPE <b>----</b>	GROUND ELEVATION <b>86</b>	
DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>3/4/21</b>	

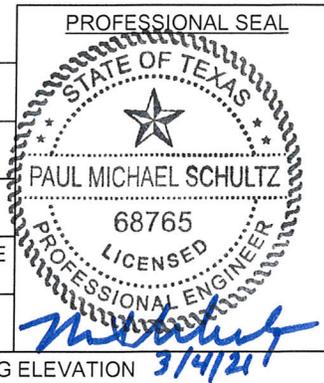
REMARKS: Location (Latitude, Longitude): 29.683268°, -95.588598°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0						0'-8' Fill: Silty clay, gray, medium plasticity, very stiff.	
1			1.6			1'-2' tan	
5		100		FILL		4' Grades to clay, high plasticity, stiff, moist.	
		100	0.6				
			0.4			Refusal at 8 feet.	
Bottom of borehole at 8.0 feet.							



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 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-29**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Chris Siegel</b>	
SAMPLING METHOD <b>4' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION <b>97.8</b>	
DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>314/21</b>	

REMARKS: Location (Latitude, Longitude): 29.682668°, -95.589587°

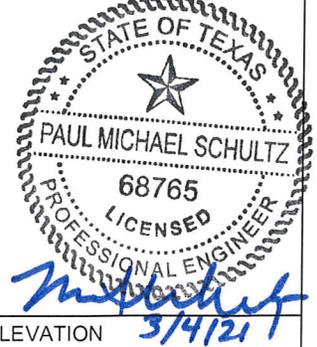
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0-8'		100	0.3	FILL		0'-8' Fill: Silty clay, gray, medium plasticity, soft, moist.	
5		100	0.4			6' Grades to tan.	
		100	0.4			7' Grades to clay, gray, high plasticity, stiff, moist.	
		100	0.1			Bottom of borehole at 8.0 feet.	



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 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-30**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Chris Siegel</b>	
SAMPLING METHOD <b>4' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER <b>---- / ----</b>	SCREEN TYPE / SLOT SIZE <b>---- / ----</b>	
GRAVEL PACK TYPE <b>---</b>	GROUT TYPE <b>----</b>	GROUND ELEVATION <b>89</b>	
DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>3/4/21</b>	

REMARKS: Location (Latitude, Longitude): 29.682657°, -95.588805°

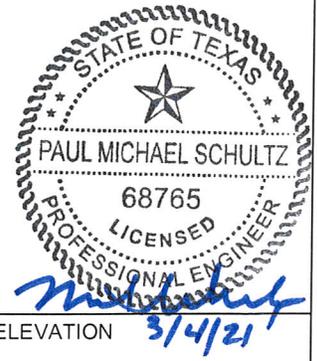
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0-8'	X	100	0.2	FILL		0'-8' Fill: Silty clay, gray, medium plasticity, stiff, moist.	
3'-4'	X	100	0.2			3'-4' tan	
6'-7'	X	100	0.4			6'-7' tan	
7'	X	100	0.1			7' grades to clay, high plasticity.	
Bottom of borehole at 8.0 feet.							



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 Houston, Texas 77043  
 Telephone: (713) 266-6056  
 Fax: (713) 266-0996

**SOIL BORING SB-31**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Chris Siegel</b>	
SAMPLING METHOD <b>4' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/21/2019</b>	DATE COMPLETED <b>6/21/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION <b>88</b>	
DEPTH TO WATER DURING DRILLING ▽		STATIC DEPTH TO GROUNDWATER ▽	TOP OF CASING ELEVATION ----- <b>3/4/21</b>

REMARKS: Location (Latitude, Longitude): 29.682658°, -95.588087°

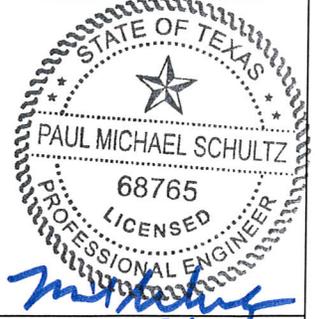
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
0-8'	X	100	0.8	FILL		0'-8' Fill: Silty clay, tan, medium plasticity, stiff, moist.	
		100	0.6			1'-2' red mottling	
5	X	100	0.6			3' Grades to gray.	
		100	0.5			6' Grades to clay, high plasticity.	
Bottom of borehole at 8.0 feet.							



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**SOIL BORING EB-1**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/20/2019</b>	DATE COMPLETED <b>6/20/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER <b>---- / ----</b>	SCREEN TYPE / SLOT SIZE <b>---- / ----</b>	
GRAVEL PACK TYPE <b>---</b>	GROUT TYPE <b>----</b>	GROUND ELEVATION <b>88</b>	
DEPTH TO WATER DURING DRILLING $\nabla$		STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>31412</b>

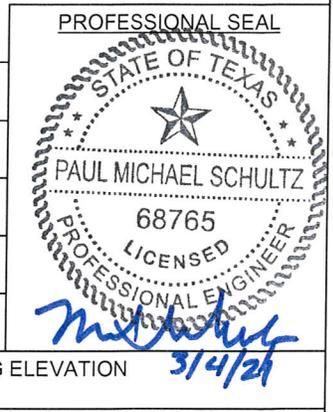
REMARKS: Location (Latitude, Longitude): 29.677226°, -95.590700°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5	X	90	0.1	FILL		0'-4.5' Fill: Clay, brown with light brown, orange, dark brown, and black mottling, high plasticity, medium stiff, moist, some calcareous nodules.	
			0.0	NR		4.5'-5' No recovery.	
10		100	0.3	FILL		5'-13' Fill: Clay, brown with light brown, orange, dark brown, and black mottling, high plasticity, medium stiff, moist, some calcareous nodules.	
		60	0.4			10' Grades to silty clay, brown with black, yellow, orange, and dark brown mottling, low plasticity, very moist. 11' Grades to clay, gray with dark gray, yellow, and orange mottling, high plasticity, soft, moist.	
15			0.3	NR		13'-15' No recovery.	
		60	0.2	LW		15'-18' Landfill waste material.	
20				NR		18'-20' No recovery.	
						Bottom of borehole at 20.0 feet.	



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**SOIL BORING EB-2**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/20/2019</b>	DATE COMPLETED <b>6/20/2019</b>
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION <b>86</b>
DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION ----

REMARKS: Location (Latitude, Longitude): 29.677101°, -95.590718°

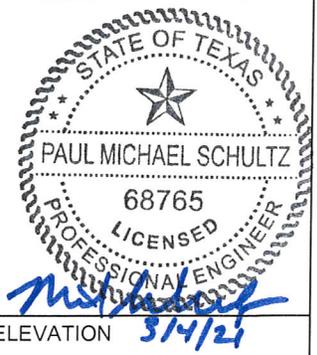
Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5		80		FILL		0'-4' Fill: Clay, red with gray mottling, high plasticity, medium stiff, moist.	
				NR		4'-5' No recovery.	
		60		LW		5'-8' Landfil waste material.	
				NR		8'-10' No recovery.	
10						Bottom of borehole at 10.0 feet.	



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**SOIL BORING EB-3**

PROFESSIONAL SEAL



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/20/2019</b>	DATE COMPLETED <b>6/20/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER ---- / ----	SCREEN TYPE / SLOT SIZE ---- / ----	
GRAVEL PACK TYPE ---	GROUT TYPE ----	GROUND ELEVATION <b>86</b>	
DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>3/4/21</b>	

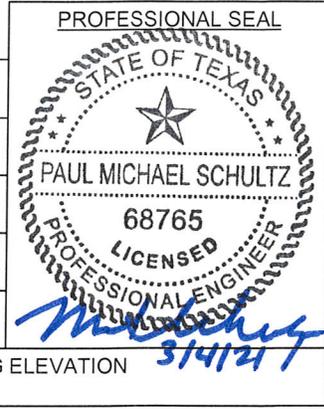
REMARKS: Location (Latitude, Longitude): 29.677010°, -95.590714°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5		100		FILL		0'-4.1' Fill: Clay, orange with light brown and red mottling, high plasticity, stiff, moist.	
				LW		4.1'-5' Landfill waste material.	
						Bottom of borehole at 5.0 feet.	



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**SOIL BORING EB-4**



PROJECT NO./NAME <b>5019-0001 / Doty and Olshan Landfills</b>		PROJECT LOCATION <b>12000 Bissonnet Street, Houston, TX</b>	
DRILLING COMPANY <b>Envirotech Drilling Services</b>	DRILLING METHOD <b>Direct Push Geoprobe</b>	LOGGED BY <b>Cole Willis</b>	
SAMPLING METHOD <b>5' Core Barrel w/ Disp. Sleeves</b>	DATE STARTED <b>6/20/2019</b>	DATE COMPLETED <b>6/20/2019</b>	
BOREHOLE DIAMETER <b>2"</b>	CASING TYPE / DIAMETER <b>---- / ----</b>	SCREEN TYPE / SLOT SIZE <b>---- / ----</b>	
GRAVEL PACK TYPE <b>---</b>	GROUT TYPE <b>----</b>	GROUND ELEVATION <b>83</b>	
DEPTH TO WATER DURING DRILLING $\nabla$	STATIC DEPTH TO GROUNDWATER $\nabla$	TOP OF CASING ELEVATION <b>314121</b>	

REMARKS: Location (Latitude, Longitude): 29.676796°, -95.590054°

Depth (ft. bgs)	Sample	Recovery %	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Water Levels
5 10 15		60		FILL		0'-3' Fill: Clay, dark brown with gray, black, brown, and orange mottling.	
				NR		3'-5' No recovery.	
		80		FILL		5'-9' Fill: Clay, dark brown with gray, black, brown, and orange mottling.	
				NR		9'-10' No recovery.	
		40		FILL		10'-12' Fill: Clay, dark brown with gray, black, brown, and orange mottling.	
				NR		12'-15' No recovery.	
						Bottom of borehole at 15.0 feet.	



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**Request for Authorization to Disturb Final Cover Over Closed Municipal Solid Waste Landfill  
for Non-Enclosed Structure  
Appendix 8 – Liner Quality Control Plan**

**Doty Sand Pit Venture Landfill (MSW 1247) and  
Olshan Demolishing Landfill (MSW 1259, revoked)  
12000 Bissonnet Street  
Houston, Harris County, Texas 77099**

*Prepared for:*

**Bissonnet 136, LLC  
Twenty Park Road, Suite G  
Burlingame, California 94010**

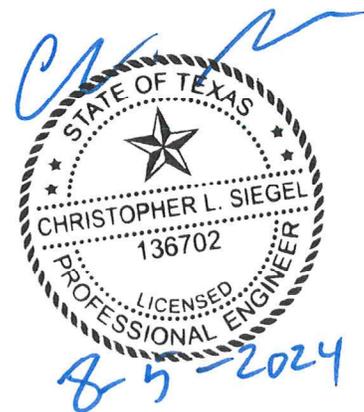
July 25, 2024

SKA Project No. 5019-0001

SKA Consulting, L.P.  
1888 Stebbins Drive, Suite 100  
Houston, Texas 77043

P: 713.266.6056 | F: 713.266.0996

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REQUEST FOR AUTHORIZATION TO DISTURB FINAL COVER OVER CLOSED MUNICIPAL  
SOLID WASTE LANDFILL FOR NON-ENCLOSED STRUCTURE  
Appendix 8 – Liner Quality Control Plan

DOTY SAND PIT VENTURE LANDFILL (MSW PERMIT 1247)  
OLSHAN DEMOLISHING LANDFILL (MSW PERMIT 1259, REVOKED)  
12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS 77099

SKA PROJECT NO. 5019-0001

Prepared for:

BISSONNET 136, LLC  
TWENTY PARK ROAD, SUITE G  
BURLINGAME, CALIFORNIA 94010

Submitted by:

SKA CONSULTING, L.P.  
1888 STEBBINS DRIVE, SUITE 100  
HOUSTON, TEXAS 77043



Prepared by:

CHRIS SIEGEL, P.E.  
SENIOR PROJECT MANAGER AND ENGINEER

Signature

Reviewed by:

MIKE SCHULTZ, P.E.  
EXECUTIVE VICE PRESIDENT AND PARTNER

Signature

July 25, 2024

TEXAS REGISTERED ENGINEERING FIRM NO. F-005009  
TEXAS REGISTERED GEOSCIENCE FIRM NO. 50011  
TEXAS ASBESTOS CONSULTANCY 100525

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# 1.0 Introduction

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This Application to Disturb Final Cover Over Closed Municipal Solid Waste Landfill for Non-Enclosed Structure has been prepared by SKA Consulting, L.P. (SKA) on behalf of Bissonnet 136, LLC (Bissonnet and Applicant). This Application to Disturb Final Cover Over Closed Municipal Solid Waste Landfill for Non-Enclosed Structure pertains to the development of site infrastructure (roads, utilities, drainage, and detention) needed to support further development of the Subject Property. The proposed infrastructure does not contain any structures suitable for human occupancy. As an integral component of the infrastructure, detention ponds will serve to regulate surface water runoff. These ponds will incorporate compacted clay and synthetic liners to prevent the infiltration of water into the waste material at both the Doty Sand Pit Venture (DSPV) Landfill under Municipal Solid Waste (MSW) Permit No. 1247, and the closed Olshan Demolishing Landfill. This Liner Quality Control Plan (LQCP) outlines the quality control measures for the liner installation, including procedures, testing protocols for liner components, specifications for ballast, and guidelines for dewatering.

## 1.1 Liner Design Criteria

The detention pond liner shall adhere to the specifications outlined for liner construction in accordance with regulations for a Municipal Solid Waste (MSW) Type I Landfill, as stipulated by TAC 330.331, 330.337, and 330.339. This composite liner will consist of a 60-mil high-density polyethylene (HDPE) liner, supported by a compacted clay base of 2 feet thickness, and further protected by a minimum 2-foot layer of select fill as protective cover material over the HDPE liner. Additional protective cover material may be used as ballast.

## 1.2 Key Personnel

Contractor will be responsible for ensuring the composite liner is constructed in accordance with this LQCP.

Geotechnical Engineer will be responsible for providing oversight and ensuring documentation of testing has been completed for the protective cover and soil liner are constructed in accordance with this LQCP.

Geomembrane Quality Control Specialist will be responsible for providing oversight and ensuring documentation of testing has been completed for the geomembrane liner are constructed in accordance with this LQCP.

## 2.0 Liner Installation Procedure

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The LQCP outlines the quality control measures for the liner installation, including procedures, testing protocols for liner components, specifications for ballast, and guidelines for dewatering. This section of the LQCP describes the procedure pertaining to the installation of the composite liner. Unless explicitly specified otherwise, the Contractor is accountable for executing the tasks outlined in this section.

### 2.1 Preparation and Soil Liner Installation

The Applicant does not anticipate any special ground improvement plans for the proposed infrastructure construction. The cut areas for the detention ponds that will be lined are shown on Sheet C-20 and Sheet C-21 Clay Cap Excavation of the civil drawing set in **Appendix 5**. If waste is encountered in these areas, the bottom of the excavation will be over-excavated by 2 feet and backfilled with 2 feet of compacted clay (soil liner). The side slopes will also be over-excavated by 2 feet up to an elevation 2 feet above the waste occurrence and the side slopes will be lined with 2 feet of compacted clay. The soil liner for the detention ponds will also serve as the final cover for the waste beneath it.

During infrastructure construction, traditional ground improvement techniques such as proof rolling and roller compacting will be used to prepare the subgrade prior to installing the two feet of compacted clay. However, the effect of these techniques is generally limited to no more than two feet. Therefore, these techniques are not likely to result in significant waste compaction. Each detention basin, if needed, will be dewatered as described in **Section 5** of this LQCP before construction of the soil liner. The dewatering will be maintained during construction of each detention pond that will be constructed below the leachate level of the landfill until sufficient protective cover material (ballast) is placed to mitigate potential uplift pressure as described in **Section 5** of this LQCP.

Prior to placement, testing of the clay material at the borrow site will follow the procedures outlined in **Section 3.1** of this Liner Quality Control Plan (LQCP). The soil liner will consist of 2 feet of compacted clay, placed into lifts with a maximum thickness of 6 inches each. Any clods exceeding 4 inches in diameter will be crushed to a diameter of 4 inches or less, and rocks larger than 1 inch in diameter will be removed before installation as part of the liner.

Before placing the clay on the subgrade, the subgrade layer will undergo surveying to establish elevations prior to constructing the soil liner. The clay will be laid in continuous lifts of up to 6 inches (after compaction). Compaction of the clay lifts will be achieved using pad/tampering-foot or prong foot rollers to ensure proper bonding between lifts. Each lift of clay will be compacted to 95% of maximum dry density, at or above the optimal moisture content determined by the Standard Proctor (ASTM 698). The compactor utilized must weigh a minimum of 40,000 pounds, and each lift requires a minimum of 4 passes. The footed roller of the compactor will be inspected between passes to determine if clogging of the prongs or pad feet is occurring. If clogging is determined, cleaning of the footed roller will be carried out as necessary.

The soil liner will undergo testing conducted by a third-party Geotechnical Engineer in accordance with the frequency outlined in **Section 3.1** of this Liner Quality Control Plan (LQCP). Commencement of each lift is contingent upon confirmation by the Geotechnical Engineer that testing for the preceding lift has been completed and meets acceptable standards. In the event

that a lift is deemed unacceptable by the Geotechnical Engineer, it is the Contractor's responsibility to rectify the issue through reworking the lift, followed by additional testing as necessary until the Geotechnical Engineer determines its acceptability. The soil liner will be integrated into the final cover and adjacent layers of the detention pond, as described in **Section 2.5** of this LQCP.

Once a sufficient number of lifts have been compacted, the top surface of the soil liner will be smoothed using a smooth, steel-wheeled roller so that surface of the liner is smooth prior to geomembrane liner placement. Any depressions in the soil liner will be filled with additional clay and compacted to meet density specifications. The soil liner will be rolled and compacted in areas that include protrusions. The top of the soil liner will be free of any objects (e.g., rocks, sticks) greater than 3/8 of an inch and of any sharp objects capable of piecing of the geomembrane liner. The soil liner will be maintained moist by regular watering to prevent desiccation without saturating the clay or causing ponded water prior to installation of the geomembrane liner, employing methods available to the contractor. Following the construction of the 2-foot compacted clay liner and completion of all required testing, a soil liner evaluation report (SLER) will be submitted to the Texas Commission on Environmental Quality (TCEQ).

## **2.2 Geomembrane Liner Layer Installation**

Before installing the geomembrane liner, the Contractor must ensure that the top surface of the soil liner complies with the specifications outlined in **Section 2.1** of this LQCP, ensuring the absence of protrusions, depressions, and/or foreign objects. Additionally, the Contractor is responsible for verifying that the soil liner exhibits appropriate moisture levels (i.e., absence of standing water, not saturated, and devoid of cracks from desiccation) prior to geomembrane installation.

The geomembrane liner itself will consist of a 60-mil HDPE geomembrane. Geomembrane material must be fabricated from virgin raw materials. Reground, reworked, or trim material, in the form of chips or edge strips, may be incorporated only if sourced from the same manufacturer and exhibiting precisely the same formulation as the geomembrane being produced. The utilization of recycled or reclaimed materials in the manufacturing process is strictly prohibited. HDPE material and requisite welding rods must contain between 2 percent and 3 percent carbon black, with no more than 1 percent of other additives permitted.

The geomembrane will be delivered in rolls, and any indication of damage or folding upon receipt will result in the rejection of the affected geomembrane material. Equipment employed for the transportation and storage of the geomembrane material will be utilized in a manner that prevents any damage to the material. The rolls and/or pallets of geomembrane will not be pushed, dragged, and/or rolled.

Storage of the geomembrane material will adhere to the manufacturer's specifications to prevent damage from punctures, foreign debris, heat, or any other potential sources of harm. The storage location will be dry and firm. Prior to installation, the Geomembrane Quality Control Specialist will ensure that all documentation of testing conducted by the manufacturer has been received and meets the requirements outlined in Section 3.2 of this Liner Quality Control Plan (LQCP).

Any rejected material will be segregated from accepted material and promptly removed from the site.

Prior to installing the geomembrane liner atop the soil liner, the Contractor must furnish a map outlining the layout of geomembrane panels and seam locations. Geomembrane panels should be positioned directly and uniformly on the soil liner without dragging, ensuring no damage occurs to either the geomembrane panels or the soil liner.

Installation of geomembrane panels will not take place during adverse weather conditions (e.g., rain, high winds, temperatures below 45 degrees Fahrenheit, temperatures exceeding 104 degrees Fahrenheit). Geomembrane sheets will only be unrolled if they can be placed and seamed within a single day. The Contractor will secure all unseamed edges using sandbags or other approved devices at the conclusion of each day or installation segment at the end of the day. Staples, U-shaped rods, or any other penetrating anchors are strictly prohibited.

With the exception of low ground pressure supporting equipment, construction machinery must not travel directly over the geomembrane liner prior to the installation of protective cover. Following vehicular traffic on the geomembrane liner, a thorough inspection will be conducted, and any damage repaired promptly.

Smoking, wearing shoes capable of damaging the liner, and engaging in activities that could potentially harm the geomembrane liner are strictly prohibited during installation.

The Contractor is responsible for walking out or removing wrinkles before field seaming, ensuring that folds, large wrinkles, or fish mouths are not present in the seam, with only normal factory-induced creasing considered acceptable. In cases of wrinkles or folds, the Contractor must cut, overlap, and weld the material appropriately, ensuring that constructed seams do not bear significant tensile loads. During wrinkle or fold repairs, the adjacent geomembrane may not need to meet the 3-inch minimum overlap, subject to approval by the Geomembrane Quality Control Specialist. Furthermore, the Contractor must remove any dirt, water, oil, etc., from the area to be bonded and ensure that all completed seams are tightly bonded and sealed.

The Contractor will utilize heat-only tack welds, if employed, with HDPE geomembrane. The utilization of double-sided tape, glue, or any other method is prohibited when extrusion or fusion welding is employed for bonding. The Contractor will adhere to manufacturer recommendations for field seaming and repairs. For HDPE, fusion or extrusion welding is acceptable.

The Contractor will orient seams on side slopes (e.g., slopes steeper than 6H:1V) parallel to the side slope direction, locate seams joining side slopes and bottom sections at least 5 feet from the side slope and along the floor, and minimize the number of seams in corners and odd-shaped geometric locations.

The Geomembrane Quality Control Specialist will observe installation of the geomembrane liner and conduct testing as prescribed in **Section 3.2** of this LQCP. The Geomembrane Quality Control Specialist will observe all test seam procedures and seam testing activities. Additionally, they will ensure that all seam testing of the geomembrane liner adheres to current ASTM standards and GRI Test Method GM19 (GRI GM19). The Contractor will verify with the Geomembrane Quality Control Specialist that all tests need for preparation of the Geomembrane Liner Evaluation Report (GLER) have been completed prior to placing protective cover over the geomembrane liner or a portion thereof. The Geomembrane Quality Control Specialist will submit a GLER to the TCEQ once the geomembrane liner is in place and all documentation has been completed for a detention pond.

## 2.2.1 Geomembrane Liner Layer Trial Seams

As part of the quality assurance and quality control for the geomembrane liner, the Contractor will conduct trial seams to field test the worker and/or machine. The Geomembrane Quality Control Specialist will observe all field testing of trial seams. Each day, before starting field seaming operations, the Contractor will create test seams on small fragments of geomembrane to confirm the adequacy of seaming conditions. Additionally, each worker involved in seaming activities will be required to produce at least one test seam per day. Furthermore, the Contractor will ensure that for each new trial seam using extrusion welding, both the welder and the machine undergo testing. However, when utilizing fusion welding, only the machine will be tested for each new trial seam, as it is not operator-dependent.

For the trial seam testing, the Contractor will ensure the following activities are carried out:

- Trial seams will be made at least 3 feet long by 1 foot wide.
- Four specimens (six, when possible, if using dual track fusion welding) adjoining one-inch wide will be die-cut from the test seam sample.
- Two specimens will be tested in the field for shear.
- Two specimens will be tested for peeling (four, when possible, if testing both inner and outer welds for dual track fusion welding).
- Prior to testing, ensure that the extensometer testing apparatus used for peel and shear tests possesses an updated calibration certificate traceable to the National Bureau of Standards.

The passing criteria for trial seams are that they must meet the break codes, strength, and percentage peel separation standards outlined in GRI GM19 for all laboratory-tested specimens and field-tested specimens. Elongation measurements are not mandatory for trial seams. In the event of failed test specimens, the following steps will be taken:

- If one test specimen fails, the trial seam will be repeated.
- If the repeated trial seam also fails, then two additional trial seams will be constructed and tested.
- This process will be repeated until all test seams pass.

The Contractor will ensure that additional trial seams are conducted under the following circumstances:

- At the beginning of each seaming session for each seaming apparatus that will be utilized during the day. The commencement of each seaming session is defined as the morning and directly after any breaks.
- Whenever there are significant changes in environmental conditions, including temperature, humidity, dust levels, etc.
- Whenever the machine remains inactive for more than 30 minutes.
- Whenever seaming different types of geomembranes occur, such as tie-ins between smooth and textured surfaces.

## 2.2.2 Geomembrane Liner Layer Destructive Testing

As part of the quality assurance and quality control for the geomembrane liner, the Contractor will collect liner samples for destructive testing. The Geomembrane Quality Control Specialist will observe all destructive testing and coordinate shipping samples to a third-party laboratory. Destructive testing will be conducted at the following frequencies:

- Extract destructive test samples of field seams from at least one stratified location for every 500 linear feet or major fraction thereof.
- Extract destructive test samples of repaired geomembrane leaks and seams at a frequency of one stratified test for every 500 linear feet or major fraction thereof. Individual repairs of leaks or failed seams exceeding 10 feet will count towards the 500 linear foot testing interval.
- Perform a destructive test for each welding machine used for seaming or repairs at a minimum.
- Extract additional destructive test samples if deemed necessary by the Geomembrane Quality Control Specialist.

The Contractor will maintain an adequate quantity of seam test specimens to facilitate field testing, independent laboratory testing, and retesting of seams when necessary for archiving purposes. The Contractor will include at least 5 peel test specimens (10, when possible, for testing both tracks on dual track fusion welded seams) and 5 shear strength test specimens for each test sample location for the third-party laboratory analysis. The Contractor will include at least 2 peel test specimens (4, when possible, for testing both tracks on dual track fusion welded seams) and 2 shear strength test specimens for each test sample location for the field testing.

For repairs, destructive seam testing locations shall be repaired by installing a cap strip over the entire length of the failed seam. The cap strip must be made of the same liner material and extend at least six inches in all directions over the failed seam. It should be fully seamed to the parent geomembrane using extrusion welding. The capped sections should be tested non-destructively.

The passing criteria for destructive tests will be as follows:

- Meeting the break codes, strength, elongation, and percent peel separation standards as described in GRI GM19a for all laboratory-tested specimens from a destructive-test location as specified in **Table A8-2** of this LQCP.
- Meeting the break codes and strengths as described in GRI GM19a for field-tested specimens as specified in **Table A8-2** of this LQCP.

If a destructive test fails:

- The Contractor will conduct additional destructive tests at least 10 feet on both sides of the failed destructive test. If any of these additional destructive tests fail, repeat the sampling and testing process until the failed seam is identified by passing destructive tests.

- The Contractor will cap any failed seam between passing destructive tests. Alternatively, cap all seams completed by the welder or machine within the time period represented by the failed destructive test (between passing destructive tests or trial welds).

### 2.2.3 Geomembrane Liner Layer Non-Destructive Testing

As part of the quality assurance and quality control measures for the geomembrane liner, the Contractor will conduct continuous non-destructive testing on all factory and field seams. The Geomembrane Quality Control Specialist will observe all non-destructive testing procedures. The Contractor will perform the following:

- Air-pressure testing for dual-track fusion welds.
- Vacuum-box testing for all extrusion welds.
- Request prior approval for any other types of non-destructive testing.

Additionally, the Contractor will isolate all identified leaks and carry out repairs in accordance with the procedures outlined in **Section 2.2.4** of this LQCP.

Air pressure testing will be conducted by the Contractor according to the following procedure:

1. Seal the ends of the air channel of the dual-track fusion weld and pressurize to approximately 30 psi for HDPE geomembrane.
2. Shut off the air pump once the pressure of 30 psi is reached.
3. Wait for 5 minutes.
4. Observe the air pressure.

The passing criteria for air pressure testing will be a loss of less than 4 psi is acceptable if it is determined that the air channel is not blocked between the sealed ends. A loss equal to or greater than 4 psi indicates the presence of a seam leak that must then be isolated and repaired (refer **to Section 3.5** of this LQCP).

Vacuum box testing will be conducted by the Contractor on all extrusion welded seams that are suitable for this method of testing and not suitable for air pressure testing. This testing involves applying a suction value of approximately 4 to 8 psi to extrusion welded seams that can be assessed using this method. Examples of extrusion welded seams that may not be easily tested using vacuum box testing include those around boots, appurtenances, etc. The seam must be observed for leaks for at least 10 seconds while subjected to this vacuum. Additionally, the Contractor will isolate all identified leaks and carry out repairs in accordance with the procedures outlined in **Section 2.2.4** of this LQCP.

### 2.2.4 Repairs

The Contractor shall repair all seam leaks and destructive test locations by affixing patches or cap strips over the affected area. These patches or cap strips must be made of the same type of liner material and extend at least six inches in all directions from the detected faulty spot or area. The Contractor shall employ extrusion welding methods to install the patch or cap strip. At a minimum, the contractor must retest these repairs using non-destructive methods, and possibly destructive testing following the procedures outlined in **Sections 2.2.2 and 2.2.3** of this LQCP.

## 2.2.5 Transitional Details and Anchor Trench

The anchor trench for the geomembrane liner must be completed around the perimeter of the detention area. Detailed specifications for the transition of the liner to the final cover along the slopes/berms of the detention ponds, the transition of liner to the final cover of the drainage channels, and the transition of the liner to native soil and/or fill are provided in **Figure A8-1**. The excavated anchor trench should feature rounded corners to safeguard the geomembrane. Loose soil must not be allowed to underlie the geomembrane within the anchor trench.

The Contractor is responsible for coordinating the excavation of the anchor trench with the installation of the geomembrane. Backfilling and compaction of the anchor trench with select fill should achieve at least 90 percent of the maximum dry density, determined by the moisture/density compaction values specified for protective cover in **Section 3.3** of the LQCP. The Contractor must exercise caution during backfilling and compacting to prevent damage to the geomembrane. Backfilling of the anchor trench should be promptly undertaken following the deployment of geosynthetics.

Compaction testing for the anchor trench will not be carried out, and therefore, results will not be reported.

The transition from the liner to the final cover is depicted in **Figure A8-1**. Where the compacted clay of the liner is tied into 2-feet of compacted clay of the existing final cover, a stair step or sloped (minimum 5 H:1V) tie-in will be utilized as depicted in **Figure A8-2**. Repairs to the final cover during construction of the liner will be completed following the requirements of the Final Cover Quality Control Plan (**Appendix 7**) to ensure the integrity of the final cover such that the final cover maintains a consistent minimum 2-feet of compacted clay as the liner is tied into the existing final cover.

## 2.3 Protective Cover Layer

After installing the geomembrane liner, the Contractor shall place a protective cover of at least 2 feet over the geomembrane in detention ponds Basin 1 and Basin 2. In detention pond Basin 3, a protective cover of at least 3.2 feet must be ensured by the Contractor. The protective cover material will be a select fill comprised of clay that has not previously been mixed with garbage, rubbish, or other solid waste. Prior to placing fill over any part of the geomembrane, the Contractor must verify with the Geomembrane Quality Control Specialist that testing requirements for that portion of the geomembrane liner have been completed. The protective cover shall be placed as soon as possible after installing the geomembrane liner and completing the testing.

Select fill for the protective cover will be placed by the Contractor during the coolest part of the day. Soil will be deployed in 'fingers' along the surface to control slack and minimize wrinkles and folds in the geomembrane. Select fill shall only be deployed up-slope on side slopes to minimize stress on the geomembrane.

The Contractor is required to utilize a clean protective cover devoid of rocks exceeding 3/8 inch in size, vegetation, or any other materials that may pose a risk of damaging the geomembrane. Should the protective cover contain material exceeding 3/8 inch in size, the Contractor must overlay the geomembrane's surface with a layer of protective geotextile.

The placement of the protective cover shall be executed using light equipment, such as dozers with a contact pressure of less than 5 psi, while ensuring a minimum distance of 12 inches between the equipment and the geomembrane. Once 12 inches of select fill has been placed. Additional select fill will be placed in 6-inch lifts to ensure the select fill can be compacted to an average density of 120 pounds per cubic feet. After the installation of the protective cover, a survey will be conducted to confirm that the cover is at least 2 feet thick for Basins 1 and 2 and 3.2 feet in Basin 3. The Contractor will conduct field testing of the density using a nuclear density gauge per the testing requirements in **Table A8-1** for protective cover. The Geomembrane Quality Control Specialist will log every density measurement for inclusion as part of the Ballast Evaluation Report.

Upon completion of the protective cover installation, Common Bermuda grass seed will be planted using either a broadcast seeder or a culti-packer seeder. The seeding depth will not exceed 1/4 inch, with rows spaced a foot apart or less. Seed distribution will be uniform. The seeding rate will be 60 pounds per acre, unless the temperature has been below 75°F for two weeks preceding seeding, in which case 50 pounds per acre of seed will be utilized. Depending on the season, Gulf Annual Ryegrass, Tall Fescue, and/or a season-appropriate park mix may also be employed.

## 3.0 Testing Requirements

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The LQCP outlines the quality control measures for the liner installation, including procedures, testing protocols for liner components, specifications for ballast, and guidelines for dewatering. This section of the LQCP describes the testing requirements pertaining to the installation of the composite liner.

### 3.1 Soil Liner Layer Testing

Quality assurance and quality control testing for borrow source material intended for the soil liner must adhere to the tests, test methods, and frequencies specified in **Table A8-1** of the LQCP. Unless explicitly specified otherwise, the Geotechnical Engineer is accountable for ensuring the tasks outlined in this section are executed either by the Contractor or by the Geotechnical Engineer. Each borrow source must undergo testing. If either the Liquid Limit (LL) or Plasticity Index (PI) differs by 10 or more points from the moisture/density curve utilized for that soil borrow source, the soil is considered a distinct borrow source. Considering the significant shrink/swell and desiccation cracking tendencies of high plasticity clays, it is recommended that, whenever feasible, the Plasticity Index (PI) of clay liner soils be constrained to fall within the range of 15 and 30. Any borrowed source material failing to meet the performance requirements outlined in **Table A8-1** will be rejected and disqualified from incorporation into the soil liner.

Quality assurance and quality control testing for the constructed soil must adhere to the tests, test methods, and frequencies specified in **Table A8-1** of the LQCP. Sidewall liner evaluations for lifts constructed parallel to the surface of the excavation will be assessed using identical criteria and testing frequency as those for the bottom liner. Sidewall evaluations for horizontally constructed lifts may be assessed at a frequency not exceeding 12 inches in thickness (i.e., 2 lifts).

Sample locations for field density testing should be within 100 linear feet and positioned within the 4 feet closest to the protected wall. The standard practice for quality assurance laboratory testing of the constructed liner involves retrieving representative samples from the same sampling tube. Sampling and testing locations are situated adjacent to a field density/moisture test to facilitate comparison between field and laboratory results.

All field densities and moisture contents must adhere to these criteria and correspond to the appropriate ASTM D698 or ASTM D1557 moisture/density curve for the respective soil borrow source to be deemed acceptable:

- Utilizing the Standard Proctor Test (ASTM D698), the dry density and moisture content of the compacted clay liner must achieve a minimum of 95 percent of the maximum dry density and meet or exceed the optimum moisture content, respectively.
- Employing the Modified Proctor Test (ASTM D1557), the dry density and moisture content of the compacted clay liner must attain at least 90 percent of the maximum dry density and meet or exceed a moisture content 1 percent lower than optimum, respectively.
- In both compaction tests (ASTM D698 and D1557), the moisture content must not surpass a maximum value, determined by shear strength requirements and the

necessity to minimize the potential for rutting under construction equipment or desiccation cracking upon drying.

Any portion of the constructed soil liner failing to meet the performance requirements outlined in **Table A8-1** will be reworked and retested until the required performance is met.

### 3.2 Geomembrane Liner Layer Testing

Quality assurance and quality control testing for borrow source material intended for the soil liner must adhere to the tests, test methods, and frequencies specified in **Table A8-2** of the LQCP. Unless explicitly specified otherwise, the Geomembrane Quality Control Specialist is accountable for ensuring the tasks outlined in this section are executed by the Contractor or others and that the documentation for these tests is maintained. In addition to ensuring the appropriate tests are executed with satisfactory results, the Geomembrane Quality Control Specialist is responsible for the following:

- Observation of Geomembrane Liner Material Delivery
  - Ensure the integrity of the geomembrane liner during offloading and storage to prevent damage.
- Verification of Manufacturer Test Results
  - Validate that test results provided by the manufacturer align with the specifications outlined in **Table A8-2** before accepting the geomembrane.
- Conformance Testing Oversight
  - Monitor conformance testing conducted by the Contractor and coordinate shipping of the samples to a third-party laboratory as necessary.
  - Confirm that conformance testing procedures comply with the criteria delineated in **Table A8-2**.
- Soil Liner Inspection
  - Examine the soil liner surface conditions to eliminate objects exceeding 3/8 of an inch in size, sharp objects capable of piercing the geomembrane liner, and any other protrusions or depressions.
  - Verify appropriate moisture levels in the soil liner, ensuring absence of standing water, saturation, and cracks due to desiccation, prior to geomembrane installation.
  - Verify a smooth and uniform surface on top of the soil liner before geomembrane liner installation.
- Geomembrane Installation Assessment
  - Conduct visual inspections during geomembrane deployment to prevent damage to both the soil liner and geomembrane.
  - Confirm a minimum overlap of 3 inches between panels.
  - Ensure installation does not occur under adverse weather conditions such as rain, high winds, temperatures below 45 degrees Fahrenheit, or exceeding 104 degrees Fahrenheit.
- Repair and Wrinkle Inspection
  - Monitor and document repairs to the geomembrane liner.
  - Inspect panels to address any wrinkles, ensuring proper handling by the contractor.
- Welding and Seam Testing
  - Supervise all welding processes, trial seam testing, and destructive testing.
  - Validate testing results against the requirements outlined in **Table A8-2**.

- Post-Repair Verification
  - Ensure all areas failing tests are repaired and conduct additional testing if necessary to verify compliance with **Table A8-2** specifications.

### 3.3 Protective Cover Layer

Quality assurance for the protective cover will be provided by the Geomembrane Quality Control Specialist observing that the protective cover is installed in accordance with **Section 2.3** of this LQCP. The Geomembrane Quality Control Specialist will oversee the dewatering process in each basin until an adequate amount of ballast is applied to ensure a factor of safety of at least 1.2 against uplift forces on the geomembrane. The determination of sufficient ballast will be made by the Geomembrane Specialist, who will verify the thickness using survey data and confirm the density through recorded measurements taken by the Contractor and maintained by the Geomembrane Quality Control Specialist.

## 4.0 Ballast Requirements

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The LQCP outlines the quality control measures for the liner installation, including procedures, testing protocols for liner components, specifications for ballast, and guidelines for dewatering. This section of the LQCP describes the ballast requirements pertaining to the installation of the composite liner.

Ballast for the geomembrane liners for the detention ponds will be the protective cover over the geomembranes. Ballast calculations are provided in **Table A8-3** for each detention pond. As the lowest point of each geomembrane liner is the worst-case scenario for uplift, ballast calculations were conducted for the lowest elevation of the geomembrane for each detention pond. Calculation for ballast in the ballast evaluation reports (BERs) will utilize the methodology described in **Table A8-3** using as-built data. Dewatering will be maintained until sufficient ballast has been placed on the geomembrane line for each detention pond. As such, all geomembrane liner placed at an elevation below the leachate elevation will have protective cover installed to the thickness required in **Table A8-3** prior to ceasing dewatering for a detention pond.

Sufficient ballast will be determined by:

- Verifying the thickness meets the minimum ballast required in **Table A8-3** of the LQCP for each Basin. The thickness will be verified by comparing the survey elevation of the surface of the soil liner to the surface elevations of the protective cover. The thickness of the protective cover will be surveyed at the same frequency as specified in **Table A8-1**.
- Verifying the density of the protective cover meets the density requirements specified in the Ballast calculations that are included as **Table A8-3**. Protective cover field density will be measured at the same frequency as the field density for the soil liner as specified in **Table A8-1**. The field density will be measured using nuclear method ASTM D6938 or AASHTO T310

The high leachate level was determined based on the highest leachate elevation in a piezometer gauged in a detention pond in 2022 and 2024. **Table A8-4** includes leachate elevation measurements. The sump(s) for each will be dewatered to maintain a head at or beneath the highest leachate level determined in **Table A8-3** until sufficient ballast is placed. Water removed from sumps will be managed in one of three ways:

- Discharged under the requirements of an approved Texas Pollutant Discharge Elimination System (TPDES) permit;
- Discharged to the City of Houston Sanitary Sewer System under the requirements of an industrial wastewater permit; or
- Transported and disposed off-site to an authorized disposal and/or recycling facility.

## 5.0 Dewatering Requirements ---

The LQCP outlines the quality control measures for the liner installation, including procedures, testing protocols for liner components, specifications for ballast, and guidelines for dewatering. This section of the LQCP describes the dewatering requirements pertaining to the installation of the composite liner.

Dewatering will be conducted for each detention pond prior to construction of the composite liner and be continued until sufficient protective cover has been placed onto the geomembrane to ensure a factor of safety of 1.2 has been met to address uplift forces. Dewatering methods will be determined in the field, and use one or a combination of the following methods:

- Recovery of leachate through recovery wells;
- Recovery of leachate through sumps/trenches.

A piezometer will be installed at each detention pond location prior to construction of the applicable detention pond to monitor leachate elevations. A sufficient amount of leachate will be recovered to lower the leachate elevation to a level beneath the lowest elevation for the geomembrane liner to be installed at each detention pond location. During construction activities of the detention pond liners, the leachate elevations will be verified daily by the Contractor to verify the leachate elevation is below the geomembrane at the applicable detention pond until sufficient thickness of protective cover has been placed onto the geomembrane as ballast as determined in **Table A8-3** and approval to cease dewatering has been granted by the TCEQ. The request to cease dewatering will be included in a ballast evaluation report that is submitted to the TCEQ once a sufficient thickness of protective cover has been placed onto the geomembrane as ballast at each detention pond. If a response from the TCEQ is not received within 14 days of submittal to the TCEQ, dewatering may be discontinued.

Water removed during dewatering operations will be managed in one of three ways:

- Discharged under the requirements of an approved Texas Pollutant Discharge Elimination System (TPDES) permit;
- Discharged to the City of Houston Sanitary Sewer System under the requirements of an approved industrial wastewater permit; or
- Transported and disposed off-site to an authorized disposal and/or recycling facility.

## 6.0 Reporting Requirements ---

The LQCP outlines the quality control measures for the liner installation, including procedures, testing protocols for liner components, specifications for ballast, and guidelines for dewatering. This section of the LQCP describes the reporting requirements pertaining to the installation of the composite liner. All quality assurance and quality control testing for the liners must be conducted in accordance with the Liner Quality Control Program (LQCP) as mandated by 30 TAC 330.339(a).

### 6.1 SLER and GLER Reporting Requirements

The Geotechnical Engineer will ensure that all quality assurance requirements for the soil liner component of the composite liner are documented and met. The Geomembrane Quality Control Specialist will similarly ensure that all quality assurance requirements pertaining to the geomembrane liner component, as well as ballasting and dewatering requirements, are documented and met.

Quality assurance documentation will encompass daily record-keeping, testing and installation reports, nonconformance reports (if necessary), progress reports, photographic records, and any revisions to design and specifications. All pertinent documentation will be integrated into the Soil Liner Evaluation Report (SLER) and Geomembrane Liner Evaluation Report (GLER), as applicable. One SLER and One GLER will be prepared for each detention pond. The Geotechnical Engineer and Geomembrane Quality Control Specialist will utilize standard report forms accessible from the TCEQ website, if available, to streamline the documentation process.

Red markers will be utilized on site to visually indicate the extent of constructed liners until all SLERs, GLERs, and BERs have been approved for a detention pond as applicable. Markers will not be placed through a constructed liner or segment thereof. The location of the red-colored markers will be documented on a site map maintained by the Contractor and included in the SLER and/or GLER. Once the applicable SLER or GLER is approved the detention pond will be permanently fenced.

Each SLER and GLER will include a map illustrating the following:

- Layout plan for the detention pond;
- Boundaries of the respective liner component (i.e., extent of soil liner for SLER and geomembrane liner for GLER);
- Grid system utilized on the site;
- Scale of the map; and
- North arrow for orientation purposes.

Each SLER and GLER will include the following components:

- Documentation of all field and laboratory tests conducted on liner soils, with test results and sample locations plotted on a location plan (SLER only);
- Documentation of all tests conducted on the protective cover layers;
- Inclusion of manufacturer's certifications, documentation of all manufacturer and independent testing, records of seaming and repairs, seam tests, and a site map depicting the locations of panels, repairs, and tests related to the geomembrane (GLER only);

- Manufacturer's certifications and testing documentation for all geosynthetics used in the liner system; and
- Survey documentation detailing the thickness of the soil liner and protective cover layers.
- Documentation detailing the as-built density and thickness of the composite liner and protective cover; (GLER only)
- Statement that documentation of ballast data will be provided in the GLER and the BER for each detention pond (SLER only).

The Geotechnical Engineer and/or Geomembrane Quality Control Specialist will oversee all field sampling and testing of liner components and construction processes to ensure compliance with standards and requirements. They will review the results of all field and laboratory testing of the liner and its construction to verify adherence to the approved Liner Quality Control Program (LQCP). Any completed section of the liner that fails to meet the minimum specified conditions of the required tests must undergo reworking or reconstruction until the necessary results are achieved. Failure to attain the required results through reworking warrants rejection of the affected area. The Geotechnical Engineer and/or Geomembrane Quality Control Specialist will ensure that all reworked areas meet the applicable requirements.

The Geotechnical Engineer and/or Geomembrane Quality Control Specialist will provide documentation in the SLER and/or GLER indicating their supervision of liner testing and construction, review of relevant field and laboratory testing results, and confirmation that areas failing testing were appropriately reworked and retested. A professional engineer will seal each SLER and GLER.

## **6.2 BER Reporting Requirements**

The Geomembrane Quality Control Specialist will ensure that all quality assurance requirements pertaining to ballasting and dewatering requirements are documented and met. Quality assurance documentation will encompass daily record-keeping, testing and installation reports, nonconformance reports (if necessary), progress reports, photographic records, and any revisions to design and specifications. All pertinent documentation will be integrated into a Ballasting Evaluation Report (BER).

The BER shall include document of the following:

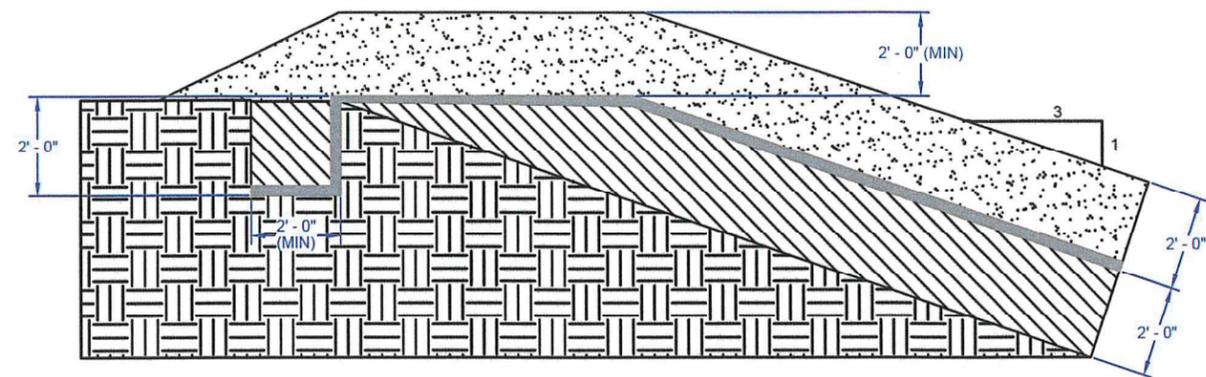
- Summary of soil and/or waste stratigraphy and properties exposed on the bottom and sidewalls of the area being lined.
- Adjusted seasonal high leachate table, based on the leachate elevation data collected prior and during construction;
- Calculation of ballast required, and the properties of the soil utilized as ballast;
- Discussion of the dewatering method, using criteria established in the LQCP.
- Method of controlling uplift forces during construction (dewatering);
- Monitoring of dewatering system to demonstrate that hydrostatic forces did not develop during liner construction.
- Pre-construction and top-of-liner evaluations of the liner, and confirmation of liner weight;
- Protective cover is placed on the composite liner immediately after the geomembrane is installed.

A professional engineer will seal each BER.

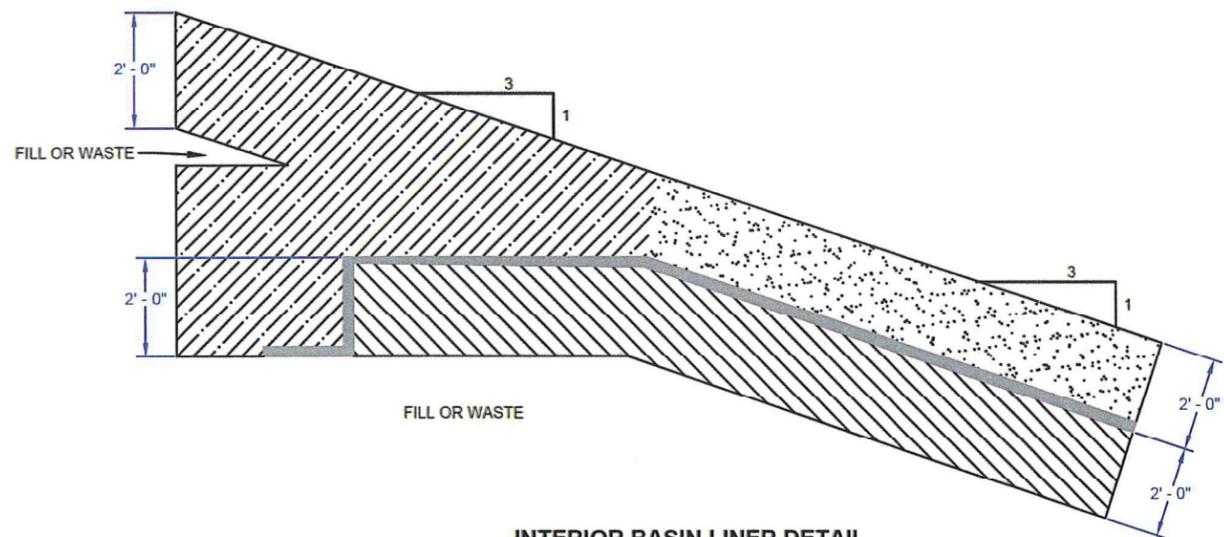
## FIGURES

**LEGEND**

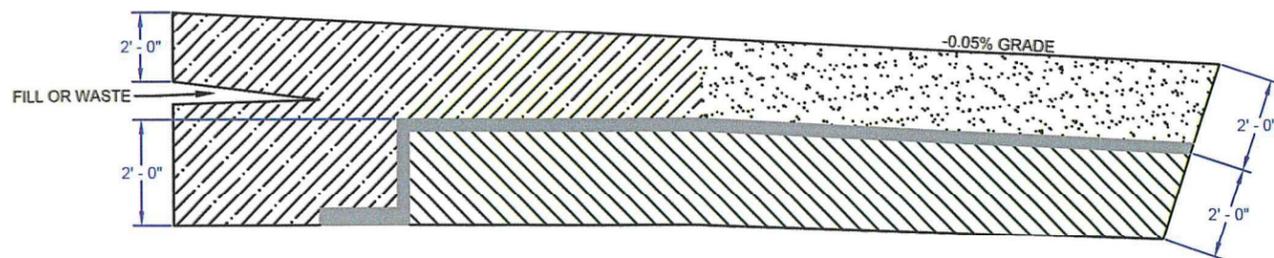
-  NATIVE SOIL OR FILL
-  PROTECTIVE COVER (SELECT FILL)
-  RIP RAP
-  GEOMEMBRANE (60 MIL HDPE)
-  COMPACTED CLAY FOR BASIN LINER (HYDRAULIC CONDUCTIVITY  $\leq 1 \times 10^{-7}$  CM/SEC)
-  COMPACTED CLAY FOR LANDFILL CAP



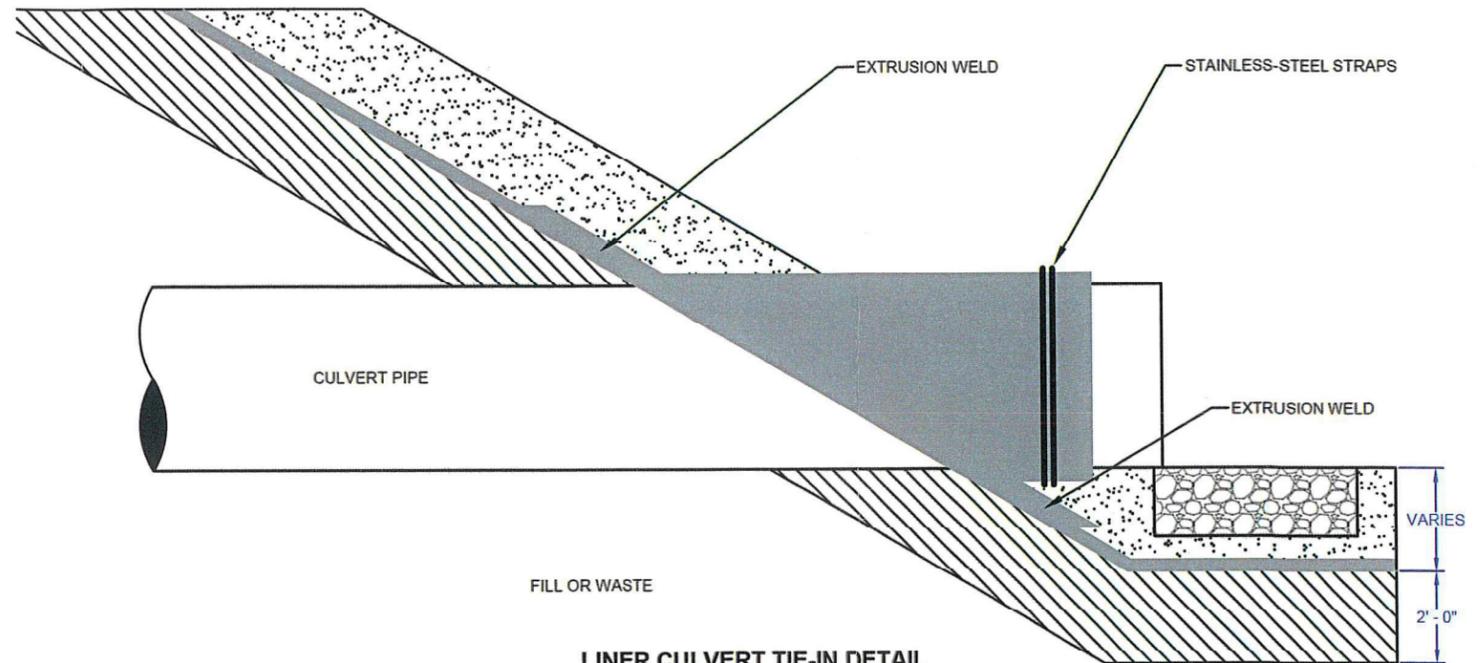
**EXTERIOR BASIN PERIMETER LINER DETAIL  
(WHERE LINER ABUTS NATIVE SOIL OR FILL)**



**INTERIOR BASIN LINER DETAIL  
(WHERE LINER IS OVER WASTE)**



**CHANNEL TO BASIN TRANSITION DETAIL**



**LINER CULVERT TIE-IN DETAIL**

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- FOR THE CULVERT PIPES INSTALLED IN THE BASINS, GEOMEMBRANE SHALL BE WRAPPED AROUND THE CULVERT PIPE AND WELDED TO THE GEOMEMBRANE OF THE THE LINER. THE GEOMEMBRANE WRAPPED AROUND THE CULVERT PIPE SHALL BE STRAPPED TO THE PIPE USING A STAINLESS-STEEL STRAP.

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**BASIN LINER DETAIL**

FIGURE  
**A8-1**

LINER QUALITY CONTROL PLAN

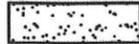
DOTY SAND PIT VENTURE LANDFILL (MSW PERMIT 1247)  
OLSHAN DEMOLISHING LANDFILL (MSW PERMIT 1259, REVOKED)  
12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS 77099

DATE:	JULY 2024	JOB NO:	5019-0001	SCALE:	NTS
1	FIRST REVISION	-	DRAWN BY:	MLH	
2	SECOND REVISION	-	CHECKED BY:	CLS	
3	THIRD REVISION	-	APPROVED BY:	PMS	

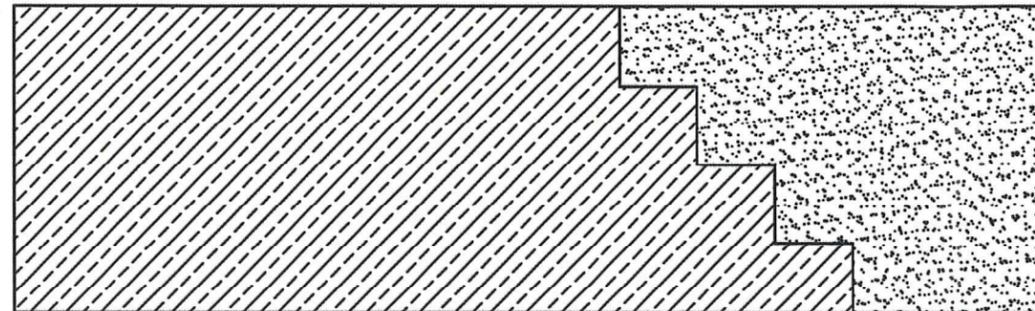


REFERENCE: LINER QUALITY CONTROL PLAN

**LEGEND**

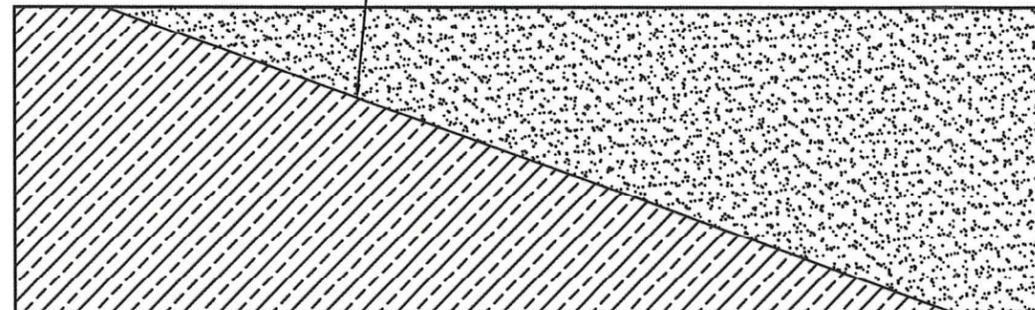
-  EXISTING COMPACTED CLAY)
-  NEW COMPACTED CLAY

STAIR STEP TIE-IN



SLOPED TIE-IN

5 H:1V MAXIMUM SLOPE (SCARIFIED)



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**FINAL COVER TIE-IN DETAIL**

FIGURE  
**A8-2**

LINER QUALITY CONTROL PLAN

DOTY SAND PIT VENTURE LANDFILL (MSW PERMIT 1247)  
 OLSHAN DEMOLISHING LANDFILL (MSW PERMIT 1259, REVOKED)  
 12000 BISSONNET STREET  
 HOUSTON, HARRIS COUNTY, TEXAS 77099

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## TABLES

**TABLE A8-1**  
**QUALITY ASSURANCE AND QUALITY CONTROL TESTING REQUIREMENTS FOR SOIL LINER**  
**REQUEST FOR AUATHORIZATION TO DISTURB FINAL COVER OVER CLOSED MUNICIPAL SOLID WASTE LANDFILL FOR NON-ENCLOSED STRUCTURE**  
**APPENDIX 8 – LINER QUALITY CONTROL PLAN**  
**DOTY SAND PIT VENTURE LANDFILL(MSW 1247) AND**  
**OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)**  
**12000 BISSONNET STREET**  
**HOUSTON, HARRIS COUNTY, TEXAS 77099**

Category	Type of Test	Standard Test Methods	Minimum Frequency of Testing <sup>b</sup>
Borrow Source Materials	Unified Soil Classification	ASTM D2487	One per soil type
	Moisture/Density Relationship	ASTM D698 or D1557	One per soil type
	Sieve (gradation)	ASTM D422 or D1140	One per soil type
	Atterberg Limits	ASTM D4318	One per soil type
	Permeability	ASTM D5084 or CoE EM1110-2-1906	One per Moisture/Density Relationship
Constructed Soil Liners	Field Density	ASTM D1556, D2167, or D6938	One per 8,000 ft <sup>2</sup> per 6-inch parallel lift; one per 100 lineal ft per 12-inch sidewall horizontal lift
	Sieve (gradation)	ASTM D422 or D1140	One per 100,000 ft <sup>2</sup> per 6-inch parallel lift; one per 2,000 lineal ft per 12-inch sidewall horizontal lift
	Atterberg Limits	ASTM D4318	One per 100,000 ft <sup>2</sup> per 6-inch parallel lift; one per 2,000 lineal ft per 12-inch sidewall horizontal lift
	Permeability	ASTM D5084 or CoE EM1110-2-1906 (laboratory) Air Entry Permeameter (field)	One per 100,000 ft <sup>2</sup> per 6-inch parallel lift; one per 2,000 lineal ft per 12-inch sidewall horizontal lift
	Thickness	Registered Surveyor or Professional Engineer	One per 5,000 ft <sup>2</sup> (parallel lifts);50-ft cross sections (horizontal-lift liners)
Protective Cover	Field Density	ASTM D6938 or AASHTO T310	One per 8,000 ft <sup>2</sup> per 6-inch lift (per 12-inch
	Thickness	Registered Surveyor or Professional Engineer	One per 5,000 ft <sup>2</sup> (parallel lifts);50-ft cross sections (horizontal-lift liners)

b. For liners, a minimum of one test must be conducted for each lift, regardless of liner area or length.

"ft<sup>2</sup>" - square feet.

**TABLE A8-2**  
**QUALITY ASSURANCE AND QUALITY CONTROL TESTING REQUIREMENTS FOR GEOMEMBRANE LINER**  
**REQUEST FOR AUTHORIZATION TO DISTURB FINAL COVER OVER CLOSED MUNICIPAL SOLID WASTE LANDFILL FOR NON-ENCLOSED STRUCTURE**  
**APPENDIX 8 – LINER QUALITY CONTROL PLAN**  
**DOTY SAND PIT VENTURE LANDFILL(MSW 1247) AND**  
**OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)**  
**12000 BISSONNET STREET**  
**HOUSTON, HARRIS COUNTY, TEXAS 77099**

Quality Control Testing	Property	Test Method	Testing Frequency (Minimum)	Test Value (Smooth)	Test Value (Textured)
Resin Quality Control Testing	Specific Gravity/Density	ASTM D 792, Method A or ASTM D 1505	Per 200,000 ft <sup>2</sup> and every resin lot	-	-
	Melt Flow Index	ASTM D 1238	Per 100,000 ft <sup>2</sup> and every resin lot	-	-
Manufacturer Quality Control Testing	Thickness	ASTM D 5199 (smooth) or ASTM D 5994 (textured)	Per Roll of Geomembrane	Average - 60 mils lowest individual for any of the 10 values - 54 mils	Average - 60 mils Lowest individual for 8 out of 10 values - 54 mils lowest individual for any of the 10 values - 52 mils
	Specific Gravity /Density	ASTM D 1505 or D 792	Per 200,000 lb	0.94 g/cc	0.94 g/cc
	Carbon Black Content	ASTM D 4218	Per 20,000 lb	2.0-3.0 %	2.0-3.0 %
	Carbon Black Dispersion	ASTM D 5596 or ASTM D 6693	Per 45,000 lb	Per GRI-GM13, carbon black dispersion (only near spherical agglomerates) for 10 different views: 9 in Categories 1 or 2 and 1 in Category 3	Per GRI-GM13, carbon black dispersion (only near spherical agglomerates) for 10 different views: 9 in Categories 1 or 2 and 1 in Category 3
	Tear	ASTM D 1004	Per 45,000 lb	42 lb	42 lb
	Puncture	ASTM D 4833	Per 45,000 lb	108 lb	90 lb
	Stress Crack Resistance	ASTM D 5397	Per GRI-GM 10	500 hours	500 hours
	Oxidative Induction Time (OIT) Standard OIT or (b) High Pressure OIT	ASTM D 3895 or ASTM D 5885	Per 200,000 lb	100 minutes average (Standard) 400 minutes average (High Pressure)	100 minutes average (Standard) 400 minutes average (High Pressure)
	Oven Aging @ 85°C Standard OIT or High pressure OIT -% retained after 90 days for both	ASTM D 5721 ASTM D 3895 ASTM D 5885	Per each formulation	55% (Standard) 80%. average (High Pressure)	55% (Standard) 80%. average (High Pressure)
	UV Resistance High Pressure OIT (min. avg.) - % retained after 1,600 hours	ASTM D 7238 ASTM D 5885	Per each formulation	Standard (not recommended to be tested) 50% (High Pressure)	Standard (not recommended to be tested) 50% (High Pressure)
	Asperity Height	ASTM D 7466	Every 2nd roll (only for textured geomembranes)		16 mils

**TABLE A8-2**  
**QUALITY ASSURANCE AND QUALITY CONTROL TESTING REQUIREMENTS FOR GEOMEMBRANE LINER**  
**REQUEST FOR AUTHORIZATION TO DISTURB FINAL COVER OVER CLOSED MUNICIPAL SOLID WASTE LANDFILL FOR NON-ENCLOSED STRUCTURE**  
**APPENDIX 8 – LINER QUALITY CONTROL PLAN**  
**DOTY SAND PIT VENTURE LANDFILL(MSW 1247) AND**  
**OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)**  
**12000 BISSONNET STREET**  
**HOUSTON, HARRIS COUNTY, TEXAS 77099**

Quality Control Testing	Property	Test Method	Testing Frequency (Minimum)	Test Value (Smooth)	Test Value (Textured)
Conformance Testing	Thickness	ASTM D5199 (smooth) D1593 (Textured), or D5994 (Textured)	One per 50,000 ft <sup>2</sup> and every resin lot	Average - 60 mils lowest individual for any of the 10 values - 54 mils	Average - 60 mils Lowest individual for 8 out of 10 values - 54 mils lowest individual for any of the 10 values - 52 mils
	Specific Gravity /Density	ASTM D1505 or D792	One per 100,000 ft <sup>2</sup> and every resin lot	0.94 g/cc	0.94 g/cc
	Carbon Black Content	ASTM D 4218	One per 100,000 ft <sup>2</sup> and every resin lot	2.0-3.0 %	2.0-3.0 %
	Carbon Black Dispersion	ASTM D 5596 or ASTM D 6693	One per 100,000 ft <sup>2</sup> and every resin lot	Per GRI-GM13, carbon black dispersion (only near spherical agglomerates) for 10 different views: 9 in Categories 1 or 2 and 1 in Category 3	Per GRI-GM13, carbon black dispersion (only near spherical agglomerates) for 10 different views: 9 in Categories 1 or 2 and 1 in Category 3
	Tensile Properties	ASTM D 638/Type IV or ASTM D 6693	One per 100,000 ft <sup>2</sup> and every resin lot	42 lb	42 lb
	Destructive Seam Field Testing	Shear	ASTM D 4437 or D 6392	Varies for field, lab, and archive	120 lb/inch for sheer strength, and 50 % for sheer elongation at break (lab testing only for sheer elongation)
Peel		ASTM D 4437 or D 6392	Varies for field, lab, and archive	91 lb/in (78 Extrusion Weld) and a peel separation no greater than 25% (lab testing only for peel separation)	91 lb/in (78 Extrusion Weld) and a peel separation no greater than 25% (lab testing only for peel separation)
Non-destructive Seam Field Testing	Air Pressure	GRI GM-6 or ASTM D 5820	All dual-track fusion	A loss of < 4 psi is acceptable if it is determined that the air channel is not blocked between the sealed ends.	A loss of < 4 psi is acceptable if it is determined that the air channel is not blocked between the sealed ends.
	Vacuum	ASTM D 4437 or D 5641	All non-air-pressure-tested seams when possible	No leaks observed within 10 seconds.	No leaks observed within 10 seconds.

References

GRI - GM13 Standard Specification - "Test Methods, Test Properties and Testing Frequency for High Density Polyethylene (HDPE) Smooth and Textured Geomembranes"

UV resistance testing not required for HDPE that will be immediately covered.

Notes:

GRI = Geosynthetic Research Institute

"ft<sup>2</sup>" = square feet.

"lb" = pound.

"OIT" = Oxidative Induction Time

"HDPE" = High Density Polyethylene.

**TABLE A8-3  
BALLAST CALCULATIONS  
FORMER DOTY SANDPIT VENTURE LANDFILL AND OLSHAN LANDFILL  
12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS 77099  
MSW PERMIT NO. 1247**

Basin	Density of Water (lb/ft <sup>3</sup> )	Density of Protective Cover Soil (lb/ft <sup>3</sup> )	Density of Soil Liner (lb/ft <sup>3</sup> )	Maximum Leachate Elevation (ft)	Piezometer for Leachate Elevation	Thickness of Protective Cover (ft)	Thickness of Soil Liner (ft)	Minimum Elevation Soil Liner at Each Basin (ft)	Maximum Hydrostatic Uplift Pressure at base of Soil Liner (lb/ft <sup>2</sup> )	Ballast Pressure (lb/ft <sup>2</sup> )	Ballast Factor of Safety	Potentiometric Head on Basin Excavation (ft)
Basin 1	62.4	120	120	71.91	SB-62	2.0	2.0	69.5	150	480	3.19	-0.4
Basin 2	62.4	120	120	72.87	SB-63	2.0	2.0	69.5	210	480	2.28	-1.4
Basin 3	62.4	120	120	70.43	SB-56	3.2	2.0	62.1	518	620	1.20	-6.3

Notes:

Density of Protective Cover Soil based on 14 site soil densities obtained from Goodheart & Associates Geotechnical Reports dated 2022 and 2023.

Maximum Hydrostatic Uplift Pressure (lb/ft<sup>2</sup>) = Density of Water (lb/ft<sup>3</sup>) \* [(Leachate Elevation (ft) - Minimum Elevation of Soil Liner (ft))]

Ballast Pressure (lb/ft<sup>2</sup>) = [Density of Protective Cover (lb/ft<sup>3</sup>) \* (Thickness of Protective Cover)] + [Density of Soil Liner (lb/ft<sup>3</sup>) \* (Thickness of Soil Liner)]

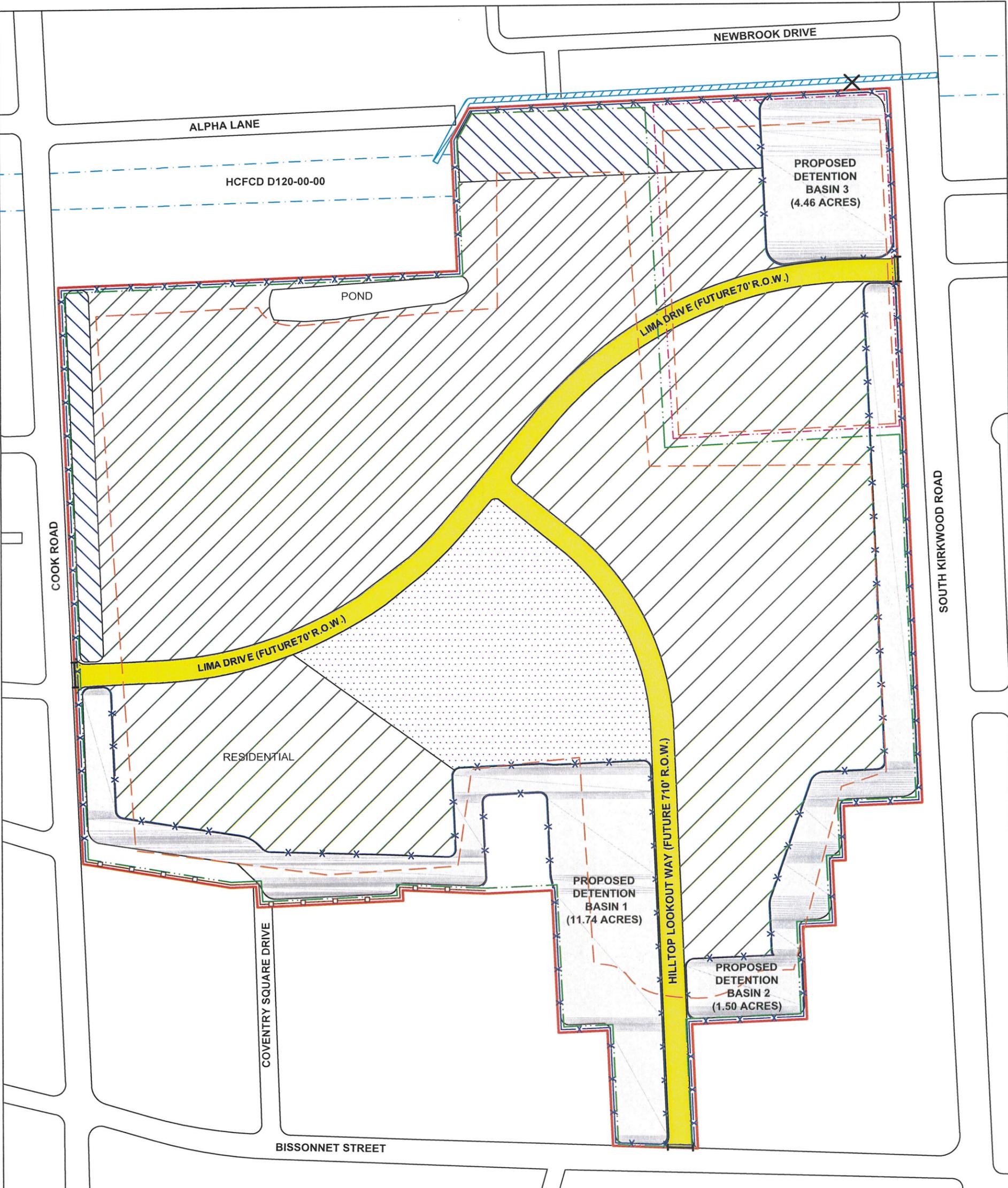
Factor of Safety = Ballast Pressure (lb/ft<sup>2</sup>) / Maximum Hydrostatic Uplift Pressure (lb/ft<sup>2</sup>) neglecting soil shear strength.

Factor of Safety is required to be at least 1.2 per TCEQ Regulatory Guidance RG-534 that the TCEQ is requiring be met for the detention ponds.

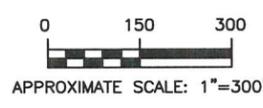
Potentiometric Head on Basin Excavation (ft) = Minimum Elevation Soil Liner at Each Basin (ft) - Leachate Elevation (ft)

lb = pound

ft = feet



- LEGEND**
- PROPOSED PHASE I DETENTION, CONSTRUCTION OVER CLOSED MSW LANDFILL PERMIT (PENDING)
  - PROPOSED PHASE 2 DETENTION
  - PROPOSED RIGHT OF WAY, CONSTRUCTION OVER CLOSED MSW LANDFILL PERMIT (PENDING)
  - PROPOSED RESIDENTIAL CONSTRUCTION OVER CLOSED MSW LANDFILL PERMIT No. 62053 (PENDING)
  - PROPOSED FUTURE RESIDENTIAL/COMMERCIAL LIGHT INDUSTRIAL
  - APPROXIMATE LANDFILL WASTE BOUNDARY
  - 6-FOOT CHAIN LINK METAL FENCE
  - 6-FOOT WOODEN FENCE
  - DOTY SAND PIT VENTURE LANDFILL PERMIT BOUNDARY (MSW PERMIT No. 1247)
  - OLSHAN PERMIT BOUNDARY (MSW PERMIT No. 1259, REVOKED)
  - EXISTING AND PROPOSED GATES
  - HCFCD DRAINAGE DITCH
  - HCFCD UNDERGROUND BOX CULVERT
  - PROPOSED OUTFALL 001 LOCATION



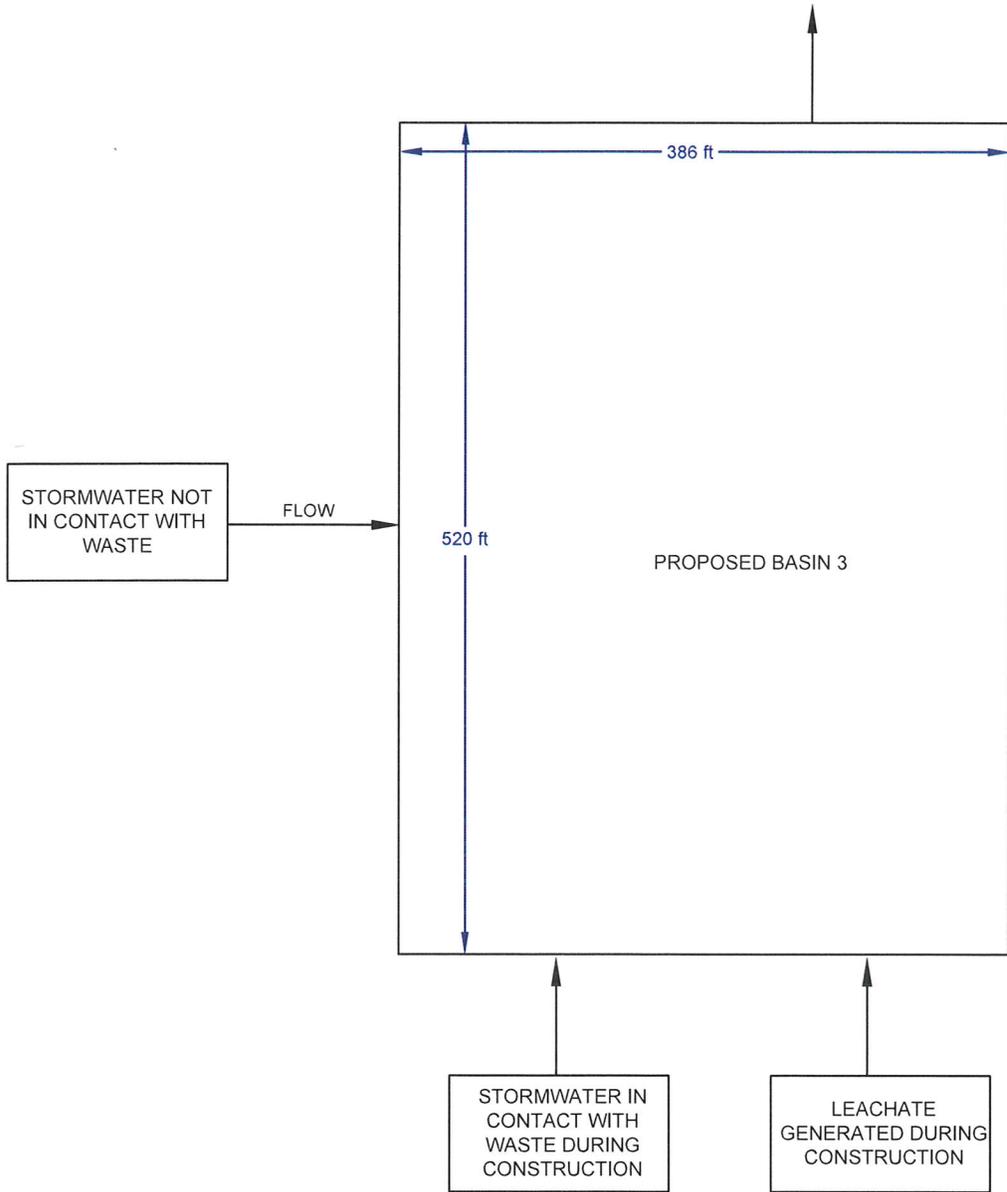
**NOTES:**

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- "MSW" REPRESENTS MUNICIPAL SOLID WASTE.
- "R.O.W." REPRESENTS RIGHT OF WAY.
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- APPROXIMATE LANDFILL WASTE BOUNDARY BASED ON DOCUMENTATION BY ENSR AND CEC BORINGS.
- DETENTION BASINS AND DRAINAGE DITCH WILL HAVE INTERNAL GATES (NOT SHOWN).

FACILITY MAP		
INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED) 12000 BISSONNET STREET HOUSTON, HARRIS COUNTY, TEXAS 77099		
DATE: SEPTEMBER 2024	JOB NO: 5019-0003	SCALE: AS SHOWN
1 FIRST REVISION	DRAWN BY: MLH	
2 SECOND REVISION	CHECKED BY: CLS	
3 THIRD REVISION	APPROVED BY: PMS	

ATTACH  
**10**

OUTFALL 001  
(HCFCD D120-00-00)



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**FLOW DIAGRAM**

ATTACH  
**11**

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION  
DOTY SAND PIT VENTURE LANDFILL (MSW 1247) AND  
OLSHAN DEMOLISHING LANDFILL (MSW 1259, REVOKED)  
12000 BISSONNET STREET  
HOUSTON, HARRIS COUNTY, TEXAS 77099

DATE: SEPTEMBER 2024    JOB NO: 5019-0003    SCALE: NTS

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3	THIRD REVISION	-	APPROVED BY:	PMS



## Leah Whallon

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**From:** Mike Schultz <mike.schultz@skaconsulting.com>  
**Sent:** Monday, November 4, 2024 3:55 PM  
**To:** Leah Whallon  
**Cc:** mlester@landcorealestate.com; Mandi Hawkins; Chris Siegel  
**Subject:** RE: Application for Proposed Permit No. WQ0005467000; Bissonnet 136, LLC; Doty Sand Pit Venture  
**Attachments:** Industrial Discharge New Spanish NORI.docx; TCEQ ePay - Additional Notification Fee.pdf  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Leah,

In response to your letter of Oct 11, please find the attached fee receipt for additional notification as well as the revised NORI in Spanish.

Please let me know if you have any questions.

Thanks,

Mike

### **Mike Schultz, P.E.**

*Executive Vice President/Partner*

#### **SKA Consulting, L.P.**

1888 Stebbins Drive, Suite 100

Houston, Texas 77043

832.255.5560 Direct

713.266.0996 Fax

713.266-6056 Main

[www.skaconsulting.com](http://www.skaconsulting.com)

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and ENGINEERING EXCELLENCE SINCE 2001***

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**From:** Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>  
**Sent:** Tuesday, October 29, 2024 1:02 PM  
**To:** Mike Schultz <mike.schultz@skaconsulting.com>  
**Cc:** mlester@landcorealestate.com; Mandi Hawkins <mandi.hawkins@skaconsulting.com>; Chris Siegel <chris.siegel@skaconsulting.com>  
**Subject:** RE: Application for Proposed Permit No. WQ0005467000; Bissonnet 136, LLC; Doty Sand Pit Venture

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[ EXTERNAL EMAIL: Do not click any links or open attachments unless you know the sender and trust the content. ]

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Thank you for the update, Mike.

I can send another letter to allow an additional 30 days to provide the response. I will send that in a separate email shortly. Please let me know if you have any questions.

Thanks,



**Leah Whallon**

Texas Commission on Environmental Quality

Water Quality Division

512-239-0084

[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

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---

**From:** Mike Schultz <[mike.schultz@skaconsulting.com](mailto:mike.schultz@skaconsulting.com)>

**Sent:** Monday, October 28, 2024 10:22 AM

**To:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>

**Cc:** [mlester@landcorealestate.com](mailto:mlester@landcorealestate.com); Mandi Hawkins <[mandi.hawkins@skaconsulting.com](mailto:mandi.hawkins@skaconsulting.com)>; Chris Siegel <[chris.siegel@skaconsulting.com](mailto:chris.siegel@skaconsulting.com)>

**Subject:** RE: Application for Proposed Permit No. WQ0005467000; Bissonnet 136, LLC; Doty Sand Pit Venture

Leah,

We received your October 11 email and are preparing a response that should be ready this week.

Thanks for the follow up.

Mike

**Mike Schultz, P.E.**

*Executive Vice President/Partner*

**SKA Consulting, L.P.**

1888 Stebbins Drive, Suite 100

Houston, Texas 77043

832.255.5560 Direct

713.266.0996 Fax

713.266-6056 Main

[www.skaconsulting.com](http://www.skaconsulting.com)

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**From:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>  
**Sent:** Monday, October 28, 2024 9:05 AM  
**To:** Mike Schultz <[mike.schultz@skaconsulting.com](mailto:mike.schultz@skaconsulting.com)>  
**Cc:** [mlester@landcorealestate.com](mailto:mlester@landcorealestate.com)  
**Subject:** RE: Application for Proposed Permit No. WQ0005467000; Bissonnet 136, LLC; Doty Sand Pit Venture

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Good Morning,

I'm following up on this application as I have not yet received the response. Please let me know if you have any questions or need additional time to complete the response.

Thank you,



**Leah Whallon**  
Texas Commission on Environmental Quality  
Water Quality Division  
512-239-0084  
[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

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**From:** Leah Whallon  
**Sent:** Friday, October 11, 2024 4:30 PM  
**To:** Mike Schultz <[mike.schultz@skaconsulting.com](mailto:mike.schultz@skaconsulting.com)>  
**Cc:** [mlester@landcorealestate.com](mailto:mlester@landcorealestate.com)  
**Subject:** Application for Proposed Permit No. WQ0005467000; Bissonnet 136, LLC; Doty Sand Pit Venture

Good Afternoon,

Please see the attached Notice of Deficiency letter dated October 11, 2024 requesting additional information needed to declare the application administratively complete. Please send the complete response by October 25, 2024.

Please let me know if you have any questions.

Thank you,



**Leah Whallon**

Texas Commission on Environmental Quality

Water Quality Division

512-239-0084

[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

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Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

**Transaction Information**

**Voucher Number:** 729243  
**Trace Number:** 582EA000632718  
**Date:** 11/04/2024 03:41 PM  
**Payment Method:** CC - Authorization 000003268G  
**Voucher Amount:** \$100.00  
**Fee Type:** ADDITIONAL 30 TAC 305.53B WQ NOTIFICATION FEE  
**ePay Actor:** MANDI HAWKINS  
**Actor Email:** mandi.hawkins@skaconsulting.com  
**IP:** 67.200.220.226

**Payment Contact Information**

**Name:** MANDI HAWKINS  
**Company:** SKA CONSULTING L P  
**Address:** 1888 STEBBINS DRIVE SUITE 100, HOUSTON, TX 77043  
**Phone:** 281-748-8989

**Site Information**

**Site Name:** DOTY SAND PIT VENTURE  
**Site Address:** 12000 BISSONNET STREET, HOUSTON, TX 77099  
**Site Location:** 12000 BISSONNET STREET

**Customer Information**

**Customer Name:** BISSONNET 136 LLC

Close

# Comisión de Calidad Ambiental del Estado de Texas



## AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA

### PERMISO PROPUESTO NO. WQ00\_\_\_\_\_

**SOLICITUD.** Bissonnet 136, LLC, 20 Park Road, Suite G, Burlingame, California ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ00\_\_\_\_\_ (EPA I.D. No. TX \_\_\_\_\_) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 50.000 galones por día. La planta está ubicada 12000 Bissonnet Street en la ciudad de Houston en el Condado de Harris, Texas. La ruta de descarga es del sitio de la planta a una zanja del Distrito de Control de Inundaciones del Condado de Harris, de allí a Brays Bayou Above Tidal, de allí a Houston Ship Channel/ Buffalo Bayou Tidal (pendiente de RWA). La TCEQ recibió esta solicitud el 3 de Octubre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Alief-David M. Henington Regional Library, 11903 Bellaire Boulevard, Houston, in Harris County, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.588333,29.683888&level=18>

El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

**AVISO ADICIONAL.** El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter**

## **comentarios públicos.**

**COMENTARIO PUBLICO / REUNION PUBLICA.** Usted puede presentar **comentarios públicos o pedir una reunión pública sobre esta solicitud.** El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

**OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.** Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

**PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS:** su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los

**Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.**

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

**CONTACTOS E INFORMACIÓN A LA AGENCIA.** Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <http://www14.tceq.texas.gov/epic/eComment/> o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Bissonnet 136. LLC a la dirección indicada arriba o llamando al Sr. Mike Schultz, P.E. de SKA Consulting, L.P., al (713) 266-6056.

Fecha de emisión 3 de Octubre de 2024.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

P.O. Box 13087  
Austin, Texas 78711-3087

PERMIT TO DISCHARGE WASTES

under provisions of  
Section 402 of the Clean Water Act,  
Chapter 26 of the Texas Water Code,  
and 40 CFR Part 445

TPDES PERMIT NO.  
WQ0005467000  
*[For TCEQ office use only -  
EPA I.D. No. TX0146722]*

Bissonnet 136, LLC

whose mailing address is

20 Park Road, Suite G  
Burlingame, California 94010

is authorized to treat and discharge wastes from Doty Sand Pit Venture, a facility that owns Doty Sand Pit Venture Landfill and Olshan Demolishing Landfill, both of which are closed Type IV construction and demolition debris landfills (SIC 4953)

located at 12000 Bissonnet Street, in the City of Houston, Harris County, Texas 77099

via Outfall 001 to Harris County Flood Control District drainage ditch (D120-00-00), thence to Brays Bayou Above Tidal, thence to Houston Ship Channel/Buffalo Bayou Tidal in Segment No. 1007 of the San Jacinto River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, five years from the date of permit issuance.

ISSUED DATE:

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For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge treated landfill leachate, contaminated groundwater, and contaminated stormwater <sup>1</sup> subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.50 million gallons per day (MGD). The daily maximum flow shall not exceed 9.1 MGD.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	0.50 MGD	9.1 MGD	N/A	1/day	Instantaneous
Biochemical Oxygen Demand (5-day)	37	140	140	1/week	Grab
Total Suspended Solids	27	88	88	1/week	Grab
Ammonia as N	4.9	10	10	1/week	Grab
α-Terpineol	0.016	0.033	0.033	1/week	Grab
Benzoic Acid	0.071	0.12	0.12	1/week	Grab
p-Cresol	0.014	0.025	0.025	1/week	Grab
Phenol	0.015	0.026	0.026	1/week	Grab
Dissolved Oxygen (Minimum)	2.0	N/A	N/A	1/week	Grab
Total Barium	1.0	4.0	4.0	1/week	Grab
Total Zinc	0.11	0.20	0.20	1/week	Grab
<i>E. coli</i>	Report <sup>2</sup>	N/A	N/A	1/week	Grab
Oil and Grease	N/A	15	15	1/week	Grab

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/week by grab sample.
3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
4. Effluent monitoring samples must be taken at the following location: At Outfall 001, at Basin 3, prior to entering the Harris County Flood Control District Drainage Ditch (D120-00-00).

<sup>1</sup> See Other Requirement No. 5.

<sup>2</sup> Value is expressed in colony forming units (cfu) or most probable number (MPN) per 100 milliliters (mL).

## DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC §§305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in Texas Water Code §26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

### 1. Flow Measurements

- a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder, and limited to major domestic wastewater discharge facilities with a one million gallons per day or greater permitted flow.
- b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

### 2. Concentration Measurements

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
  - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.
  - ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total

mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the “daily discharge” is calculated as the average measurement of the pollutant over the sampling day.

The “daily discharge” determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the “daily discharge” determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

- e. Bacteria concentration (Fecal coliform, *E. coli*, or Enterococci) – the number of colonies of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the *n*th root of the product of all measurements made in a calendar month, where *n* equals the number of measurements made; or computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substitute value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
- f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD × Concentration, mg/L × 8.34).
- g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

### 3. Sample Type

- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(c).
  - b. Grab sample - an individual sample collected in less than 15 minutes.
4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
  5. The term “sewage sludge” is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
  6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

## MONITORING AND REPORTING REQUIREMENTS

### 1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act; TWC Chapters 26, 27, and 28; and THSC Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

## 2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

## 3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR §264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
  - i. date, time, and place of sample or measurement;
  - ii. identity of individual who collected the sample or made the measurement;
  - iii. date and time of analysis;
  - iv. identity of the individual and laboratory who performed the analysis;
  - v. the technique or method of analysis; and
  - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

## 4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

## 5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site or shall be readily available for review by a TCEQ representative for a period of three years.

## 6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the regional office and the Enforcement Division (MC 224).

## 7. Noncompliance Notification

- a. In accordance with 30 TAC §305.125(9) any noncompliance that may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the regional office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the regional office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective September 1, 2020, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
  - i. unauthorized discharges as defined in Permit Condition 2(g).
  - ii. any unanticipated bypass that exceeds any effluent limitation in the permit.
  - iii. violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
- c. In addition to the above, any effluent violation that deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the regional office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

## 9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the regional office, orally or by facsimile transmission within 24 hours, and both the regional office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. one hundred micrograms per liter (100 µg/L);
  - ii. two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - iii. five (5) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. the level established by the TCEQ.

- b. That any activity has occurred or will occur that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. five hundred micrograms per liter (500 µg/L);
  - ii. one milligram per liter (1 mg/L) for antimony;
  - iii. ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. the level established by the TCEQ.

#### 10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC §305.128 (relating to Signatories to Reports).

#### 11. All POTWs must provide adequate notice to the Executive Director of the following:

- a. any new introduction of pollutants into the POTW from an indirect discharger that would be subject to CWA §301 or §306 if it were directly discharging those pollutants;
- b. any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
- c. for the purpose of this paragraph, adequate notice shall include information on:
  - i. the quality and quantity of effluent introduced into the POTW; and
  - ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

### PERMIT CONDITIONS

#### 1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
  - i. violation of any terms or conditions of this permit;
  - ii. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
  - iii. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending, or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

#### 2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment,

revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§305.62 and 305.66 and TWC §7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC §305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility that does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA §402, or any requirement imposed in a pretreatment program approved under the CWA §§402(a)(3) or 402(b)(8).

### 3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC Chapter 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit, or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC §7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

#### 4. Permit Amendment or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
  - i. the alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC §305.534 (relating to New Sources and New Dischargers); or
  - ii. the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or
  - iii. the alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes that are not described in the permit application or that would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
- e. In accordance with the TWC §26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA §307(a) for a toxic pollutant that is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA §307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

#### 5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC §305.64 (relating to Transfer of Permits) and 30 TAC §50.133 (relating to Executive Director Action on Application or WQMP update).

#### 6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

#### 7. Relationship to Water Rights

Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to Texas Water Code Chapter 11.

#### 8. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

#### 9. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

#### 10. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

#### 11. Notice of Bankruptcy.

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
  - i. the permittee;
  - ii. an entity (as that term is defined in 11 USC, §101(15)) controlling the permittee or listing the permit or permittee as property of the estate; or
  - iii. an affiliate (as that term is defined in 11 USC, §101(2)) of the permittee.
- b. This notification must indicate:
  - i. the name of the permittee;
  - ii. the permit number(s);
  - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
  - iv. the date of filing of the petition.

### **OPERATIONAL REQUIREMENTS**

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:
  - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
  - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC §7.302(b)(6).
7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.
  - a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion or upgrading of the domestic wastewater treatment or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment or collection facilities. In the case of a domestic wastewater treatment facility that reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission, and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
  - c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
  10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
  11. Facilities that generate industrial solid waste as defined in 30 TAC §335.1 shall comply with these provisions:
    - a. Any solid waste, as defined in 30 TAC §335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
    - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
    - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC §335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
    - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC §335.5.
    - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
    - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
      - i. volume of waste and date(s) generated from treatment process;
      - ii. volume of waste disposed of on-site or shipped off-site;
      - iii. date(s) of disposal;

- iv. identity of hauler or transporter;
- v. location of disposal site; and
- vi. method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

- 12. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC Code Chapter 361.

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**OTHER REQUIREMENTS**

- Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 12 within 24 hours from the time the permittee becomes aware of the violation, followed by a written report within five working days to TCEQ Region 12 and Compliance Monitoring Team (MC 224):

<b>Pollutant</b>	<b>MAL<sup>1</sup> (mg/L)</b>
Zinc (Total)	0.005
Barium (Total)	0.003
Phenol	0.010
p-Cresol	0.010

Test methods used must be sensitive enough to demonstrate compliance with the permit effluent limitations. If an effluent limit for a pollutant is less than the MAL, then the test method for that pollutant must be sensitive enough to demonstrate compliance at the MAL. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit, with consideration given to the MAL for the pollutants specified above.

When an analysis of an effluent sample for a pollutant listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form:

“The reported value(s) of zero for     [list pollutant(s)]     on the self-reporting form for     [monitoring period date range]     is based on the following conditions: (1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and (2) the analytical results contained no detectable levels above the specified MAL.”

When an analysis of an effluent sample for a pollutant indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that pollutant, the level of detection achieved shall be used for that measurement when making calculations for the self-reporting form. A zero may not be used.

- The chronic aquatic life mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge. Chronic toxic criteria apply at the edge of the chronic aquatic life mixing zone.

- POND REQUIREMENTS**

A wastewater pond must comply with the following requirements. A wastewater pond (or lagoon) is an earthen structure used to evaporate, hold, store, or treat water that contains a *waste* or *pollutant*

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<sup>1</sup> Minimum analytical level.

or that would cause *pollution* upon *discharge* as those terms are defined in Texas Water Code § 26.001, but does not include a pond that contains only stormwater.

- A. A wastewater pond **subject to 40 CFR Part 257, Subpart D** (related to coal combustion residuals) must comply with those requirements in lieu of the requirements in B through G of POND REQUIREMENTS. N/A
- B. An **existing** wastewater pond must be maintained to meet or exceed the original approved design and liner requirements; or, in the absence of original approved requirements, must be maintained to prevent unauthorized discharges of wastewater into or adjacent to water in the state. The permittee shall maintain copies of all liner construction and testing documents at the facility or in a reasonably accessible location and make the information available to the executive director upon request.
- C. A **new** wastewater pond constructed after the issuance date of this permit must be lined in compliance with one of the following requirements if it will contain process wastewater as defined in 40 CFR § 122.2. The executive director will review ponds that will contain only non-process wastewater on a case-by-case basis to determine whether the pond must be lined. If a pond will contain only non-process wastewater, the owner shall notify the Industrial Permits Team (MC 148) to obtain a written determination at least 90 days before the pond is placed into service and copy the TCEQ Compliance Monitoring Team (MC 224) and regional office. The permittee must submit all information about the proposed pond contents that is reasonably necessary for the executive director to make a determination. If the executive director determines that a pond does not need to be lined, then the pond is exempt from C(1) through C(3) and D through G of POND REQUIREMENTS.

A wastewater pond that only contains domestic wastewater must comply with the design requirements in 30 TAC Chapter 217 and 30 TAC § 309.13(d) in lieu of items C(1) through C(3) of this subparagraph.

- (1) Soil liner: The soil liner must contain clay-rich soil material (at least 30% of the liner material passing through a #200 mesh sieve, liquid limit greater than or equal to 30, and plasticity index greater than or equal to 15) that completely covers the sides and bottom of the pond. The liner must be at least 3.0 feet thick. The liner material must be compacted in lifts of no more than 8 inches to 95% standard proctor density at the optimum moisture content in accordance with ASTM D698 to achieve a permeability less than or equal to  $1 \times 10^{-7}$  ( $\leq 0.0000001$ ) cm/sec. For in-situ soil material that meets the permeability requirement, the material must be scarified at least 8 inches deep and then re-compacted to finished grade.
  - (2) Synthetic membrane: The liner must be a synthetic membrane liner at least 40 mils in thickness that completely covers the sides and the bottom of the pond. The liner material used must be compatible with the wastewater and be resistant to degradation (e.g., from ultraviolet light, chemical reactions, wave action, erosion, etc.). The liner material must be installed and maintained in accordance with the manufacturer's guidelines. A wastewater pond with a synthetic membrane liner must include an underdrain with a leak detection and collection system.
  - (3) Alternate liner: The permittee shall submit plans signed and sealed by a Texas-licensed professional engineer for any other equivalently protective pond lining method to the TCEQ Industrial Permits Team (MC 148) and copy the regional office.
- D. For a pond that must be lined according to subparagraph C (including ponds with in-situ soil liners), the permittee shall provide certification, signed and sealed by a Texas-licensed

professional engineer, stating that the completed pond lining and any required underdrain with leak detection and collection system for the pond meet the requirements in subparagraph C(1) – C(3) before using the pond. The certification shall include the following minimum details about the pond lining system: (1) pond liner type (in-situ soil, amended in-situ soil, imported soil, synthetic membrane, or alternative), (2) materials used, (3) thickness of materials, and (4) either permeability test results or a leak detection and collection system description, as applicable.

The certification must be provided to the TCEQ Water Quality Assessment Team (MC 150), Industrial Permits Team (MC 148), and regional office. A copy of the liner certification and construction details (i.e., as-built drawings, construction QA/QC documentation, and post construction testing) must be kept on-site or in a reasonably accessible location (in either hardcopy or digital format) until the pond is closed.

- E. Protection and maintenance requirements for a pond subject to subparagraph B or C (including ponds with in-situ soil liners).
- (1) The permittee shall maintain a liner to prevent the unauthorized discharge of wastewater into or adjacent to water in the state.
  - (2) A liner must be protected from damage caused by animals. Fences or other protective devices or measures may be used to satisfy this requirement.
  - (3) The permittee shall maintain the structural integrity of the liner and shall keep the liner and embankment free of woody vegetation, animal burrows, and excessive erosion.
  - (4) The permittee shall inspect each pond liner and each leak detection system at least once per month. Evidence of damage or unauthorized discharge must be evaluated by a Texas-licensed professional engineer or Texas-licensed professional geoscientist within 30 days. The permittee is not required to drain an operating pond or to inspect below the waterline during these routine inspections.
    - a. A Texas-licensed professional engineer or Texas-licensed professional geoscientist must evaluate damage to a pond liner, including evidence of an unauthorized discharge without visible damage.
    - b. Pond liner damage must be repaired at the recommendation of a Texas-licensed professional engineer or Texas-licensed professional geoscientist. If the damage is significant or could result in an unauthorized discharge, then the repair must be documented and certified by a Texas-licensed professional engineer. Within 60 days after a repair is completed, the liner certification must be provided to the TCEQ Water Quality Assessments Team (MC 150) and regional office. A copy of the liner certification must be maintained at the facility or in a reasonably accessible location and made available to the executive director upon request.
    - c. A release determination and subsequent corrective action will be based on 40 CFR Part 257 or the Texas Risk Reduction Program (30 TAC Chapter 350), as applicable. If evidence indicates that an unauthorized discharge occurred, including evidence that the actual permeability exceeds the design permeability, the matter may also be referred to the TCEQ Enforcement Division to ensure the protection of the public and the environment.
- F. For a pond subject to subparagraph B or C (including ponds with in-situ soil liners), the permittee shall have a Texas-licensed professional engineer perform an evaluation of each pond that requires a liner at least once every five years. The evaluation must include: (1) a physical

inspection of the pond liner to check for structural integrity, damage, and evidence of leaking; (2) a review of the liner documentation for the pond; and (3) a review of all documentation related to liner repair and maintenance performed since the last evaluation. For the purposes of this evaluation, evidence of leaking also includes evidence that the actual permeability exceeds the design permeability. The permittee is not required to drain an operating pond or to inspect below the waterline during the evaluation. A copy of the engineer's evaluation report must be maintained at the facility or in a reasonably accessible location and made available to the executive director upon request.

- G. For a pond subject to subparagraph B or C (including ponds with in-situ soil liners), the permittee shall maintain at least 2.0 feet of freeboard in the pond except when:
- (1) the freeboard requirement temporarily cannot be maintained due to a large storm event that requires the additional retention capacity to be used for a limited period of time;
  - (2) the freeboard requirement temporarily cannot be maintained due to upset plant conditions that require the additional retention capacity to be used for treatment for a limited period of time; or
  - (3) the pond was not required to have at least 2.0 feet of freeboard according to the requirements at the time of construction.

#### 4. Definitions

- A. Contaminated groundwater means water below the land surface in the zone of saturation which has been contaminated by activities associated with waste disposal.
- B. Contaminated stormwater means stormwater which comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined in Other Requirement No. 5(C) of this section. Some specific areas of a landfill that may produce contaminated storm water include (but are not limited to): the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment or machinery that has been in direct with the wastes; and waste dumping areas.
- C. Landfill wastewater means all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated storm water, contaminated ground water, and wastewater from recovery pumping wells. Landfill wastewater includes, but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated storm water and contact washwater from washing truck, equipment, and railcar exteriors and surface areas which have come in direct contact with solid waste at the landfill facility.

5. The regulated parameters for benzoic acid and p-Cresol shall use approved methods of analysis in the attachments to Methods 625 and 1625B in appendix A at 40 CFR Part 136. Any alternative methods of analysis are subject to TCEQ's approval.
6. Reporting requirements according to 30 TAC §§ 319.1-319.12 and any additional effluent reporting requirements contained in the permit are suspended from the effective date of the permit until plant startup or discharge, whichever occurs first, from the facility described by this permit. The permittee shall provide written notice to the TCEQ Applications Review and Processing Team (MC 148), Compliance Monitoring Team (MC 224), and Region 12 Office, at least forty-five days prior to plant startup or anticipated discharge, whichever occurs first, on Notification of Completion Form 20007.

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**DESCRIPTION OF APPLICATION**

Applicant: Bissonnet 136, LLC; Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005467000 (EPA I.D. No. TX0146722)

Regulated activity: Industrial wastewater permit

Type of application: New permit

Request: New permit

Authority: Federal Clean Water Act (CWA) §402; Texas Water Code (TWC) §26.027; 30 Texas Administrative Code (TAC) Chapter 305, Subchapters C-F, and Chapters 307 and 319; commission policies; and Environmental Protection Agency (EPA) guidelines

**EXECUTIVE DIRECTOR RECOMMENDATION**

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit will expire at midnight, five years from the date of permit issuance according to the requirements of 30 TAC §305.127(1)(C)(i).

**REASON FOR PROJECT PROPOSED**

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit.

**PROJECT DESCRIPTION AND LOCATION**

The applicant currently operates Doty Sand Pit Venture Landfill and Olshan Demolishing Landfill, the two closed Type IV construction and demolition debris landfills.

The facility includes the closed 118.778-acre Doty Sand Pit Venture (DSPV) Landfill [Municipal Solid Waste (MSW) Permit No. 1247] and the closed 18.11-acre Olshan Demolishing Landfill (MSW Permit No. 1259, revoked). The DSPV landfill is currently in post-closure care while the Olshan Demolishing Landfill completed post closure care. Both the DSPV Landfill and the Olshan Demolishing Landfill were Type IV MSW landfills that received construction and demolition waste.

Wastewater consists of landfill leachate, stormwater, and groundwater during excavation of the utility trenches, drainage ditches, and detention basins when water comes in contact with waste. Wastewater will be detained in a settlement basin to treat for suspended solids. Flocculants and aeration may be used for supplemental treatment, if needed.

The facility is located at 12000 Bissonnet Street, in the City of Houston, Harris County, Texas 77099.

**Discharge Route**

The effluent is discharged to Harris County Flood Control District (HCFCD) drainage ditch (D120-00-00), thence to Brays Bayou Above Tidal, thence to Houston Ship Channel/ Buffalo Bayou Tidal in Segment No. 1007 of the San Jacinto River Basin. The unclassified receiving water uses are limited aquatic life use for HCFCD drainage ditch (D120-00-00) and Brays Bayou Above Tidal. The designated uses for Segment No. 1007 are navigation and industrial water supply. The effluent limits in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and revisions.

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**Antidegradation Review**

In accordance with 30 TAC §307.5 and TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review is not required since no exceptional, high, or intermediate aquatic life use water bodies have been identified in the discharge route. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

**Endangered Species Review**

The discharge from this permit is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and the EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS's biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

**Impaired Water Bodies**

Segment No. 1007 is currently listed on the State's inventory of impaired and threatened waters (the 2022 Clean Water Act Section 303(d) list). The listings are for dioxin in edible tissue and Polychlorinated biphenyls (PCBs) in edible tissue in Houston Ship Channel (HSC) from a point immediately upstream of Greens Bayou Tidal to immediately upstream of the 69th Street WWTP outfall (AU 1007\_01), Sims Bayou Tidal from the HSC confluence to a point 11 km (6.8 mi) upstream (AU 1007\_02), Hunting Bayou Tidal from the HSC confluence to IH-10 (AU 1007\_03), Brays Bayou Tidal from the HSC confluence to downstream of IH-45 (AU 1007\_04), Vince Bayou Tidal from the HSC confluence to SH 225 (AU 1007\_05), Berry Bayou from the HSC confluence to a point 2.4 km (1.5 mi) upstream of the Sims Bayou confluence (AU1007\_06), Buffalo Bayou from immediately upstream of 69th Street WWTP outfall to US 59 (AU 1007\_07) and Little Vince Bayou Tidal from the Vince Bayou confluence to SH 225 (AU 1007\_08). Segment No. 1007 is also listed for bacteria in water and toxicity in sediment in Vince Bayou Tidal from the HSC confluence to SH 225 (AU 1007\_05).

The proposed discharge is not expected to contain dioxin and PCBs in the effluent. The reported data in the application indicate that the concentrations of PCBs are under TCEQ-established minimal analytical limit (MAL); and none of the dioxins were used or have any reason to believe it exists in the proposed effluent. Therefore, the permit action is not expected to contribute to the impairment of dioxin and PCBs in edible tissue.

The draft permit does not authorize the discharge of domestic wastewater and there is no other known source of bacteria in the proposed effluent. Therefore, the discharge is not expected to contribute to the impairment of bacteria. The proposed discharge is not expected to contain toxic compounds that contribute to the toxicity in sediment; therefore, this permit action is not expected to contribute to the toxicity in sediment impairment in the segment.

**Completed Total Maximum Daily Loads (TMDLs)**

The TMDL Project 72D *Five Total Maximum Daily Loads for Indicator Bacteria in Brays Bayou Above Tidal and Tributaries* is applicable to this discharge. On September 15, 2010, the Texas Commission on Environmental Quality (TCEQ) adopted Five Total Maximum Daily Loads for Indicator Bacteria in Brays Bayou Above Tidal and Tributaries. The U.S. Environmental Protection

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Agency (USEPA) approved the TMDL on September 27, 2010. The TMDL addresses elevated levels of bacteria in multiple segments and assessment units of these bayous and their tributaries. The waste load allocation (WLA) for wastewater treatment facilities was established as the permitted flow for each facility multiplied by one-half the geometric mean criterion for bacteria. Future growth from existing or new permitted sources is not limited by these TMDLs as long as the sources do not exceed the limits of one-half the bacteria geometric mean criterion for *E. coli*. To ensure that effluent limitations for this discharge are consistent with the WLAs provided in the TMDL, a concentration-based effluent limitation for *E. coli* of 63 MPN per 100 ml are required by the TMDLs. However, the proposed wastestreams do not contain the source of domestic wastewater that the permitted wastewater may not contain significant levels of bacteria. In addition, the analytical data for *E. coli* has not been reported in the application. Therefore, the monitoring and reporting requirements for *E. coli* instead of effluent limits have been proposed in the draft permit to know the effluent thoroughly.

**Dissolved Oxygen**

A dissolved oxygen analysis of the proposed daily average 0.5 MGD discharge was conducted using an uncalibrated QUAL-TX model in combination with an updated version of the calibrated QUAL-TX model documented in the Waste Load Evaluation WLE-1R for the Houston Ship Channel System (September 2006). Based on model results, the technology-based limits of 37 mg/L BOD<sub>5</sub>, and 4.9 mg/L NH<sub>3</sub>-N are predicted to be adequate to maintain the dissolved oxygen levels above the criteria stipulated by the Standards Implementation Team for the HCFCD drainage ditch D120-00-00 (3.0 mg/L) and Brays Bayou above Tidal (3.0 mg/L). Worksheet 2.0 of the permit application technical report for analytical effluent testing, 3 out the 4 D.O. effluent values are less than 1.0 mg/L. The minimum daily average of 2.0 mg/L for DO is proposed based on modeling memo in the draft permit.

**SUMMARY OF EFFLUENT DATA**

Self-reporting data is not available because the facility has not discharged.

**DRAFT PERMIT CONDITIONS**

The draft permit authorizes the discharge of treated landfill leachate, contaminated ground water, and contaminated stormwater at a daily average flow at a daily average flow not to exceed 0.50 MGD. Effluent limitations are established in the draft permit as follows:

Outfall	Pollutant	Daily Average	Daily Maximum
001	Flow	0.50 MGD	9.1 MGD
	Biochemical Oxygen Demand (BOD) 5-day	37 mg/L	140 mg/L
	Total Suspended Solids (TSS)	27 mg/L	88 mg/L
	Ammonia as N	4.9 mg/L	10 mg/L
	α-Terpineol	0.016 mg/L	0.033 mg/L
	Benzoic acid	0.071 mg/L	0.12 mg/L
	p-Cresol	0.014 mg/L	0.025 mg/L
	Phenol	0.015 mg/L	0.026 mg/L
	Total Zinc	0.11 mg/L	0.20 mg/L
	Total Barium	1.0 mg/L	4.0 mg/L
	Dissolved Oxygen (Minimum)	2.0 mg/L	N/A
	Oil and Grease	N/A	15 mg/L
	<i>E. coli</i>	Report, MPN/100 mL	N/A
	pH, standard unit (SU)	6.0 SU, minimum	9.0 SU

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OUTFALL LOCATION

Outfall	Latitude	Longitude
001	26.684540 N	95.587942 W

**Technology-Based Effluent Limitations**

Regulations in Title 40 of the Code of Federal Regulations (40 CFR) require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines. Technology-based effluent limitations from 40 CFR Part 445 Subpart B—RCRA Subtitle D Non-Hazardous Waste Landfill apply to the discharge of landfill wastewater which includes, but it not limited to, landfill leachate, contaminated groundwater, and contaminated stormwater. The effluent limitations for BOD, ammonia as N, TSS,  $\alpha$ -Terpineol, Benzoic acid, p-Cresol, Phenol, Total Zinc and pH are based 40 CFR Part 445 Subpart B (BPT, BCT, BAT, and NSPS have the same effluent limitations and BPT limitations are established at 40 CFR 445.21). The limit for Oil and Grease is based on TCEQ's practices for regulating the discharge of stormwater associated with industrial activity using BPJ.

**Water Quality-Based Effluent Limitations**

Calculations of water quality-based effluent limitations for the protection of aquatic life and human health are presented in Appendix A. Aquatic life criteria established in Table 1 and human health criteria established in Table 2 of 30 TAC Chapter 307 are incorporated into the calculations, as are recommendations in the Water Quality Assessment Team's memorandum dated March 24, 2025. TCEQ practice for determining significant potential is to compare the reported analytical data from the facility against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85 percent of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70 percent of the calculated daily average water quality-based effluent limitation.

A site-specific water-effect-ratio of 1.8 for copper has been used based on 30 TAC §307.10(5). There is not value established for total hardness for Segment No. 1007, therefore, the value of hardness from representative Segment No. 1014 has been used for the screening based on TCEQ Interoffice Memorandum from Water Quality Assessment Team dated July 2, 2025.

The reported values (4 out 4 reported values) for total barium exceed the regulated level in 30 TAC §319.22. Therefore, the total barium limits under 30 TAC §319.22 have been proposed in the draft permit. Data reported other than total barium in the application was screened against the calculated water quality-based effluent limitations. No more limits or monitoring requirements are needed.

**Total Dissolved Solids (TDS), Chloride, and Sulfate Screening**

Average concentrations of chloride and sulfate reported in the application are less than the respective criteria for Segment No. 1014 (used as comparable segment because Segment No. 1007 does not have criteria established for TDS, chloride, or sulfate in 30 TAC Chapter 307). The reported average concentration of this discharge for TDS is 1,135 mg/L which is higher than the comparable segment value of 600 mg/L. The screening has been conducted for TDS, chloride, and sulfate (Appendix B) to protect aquatic life for the portion of freshwater along the discharge route. No limits or monitoring requirements are required for this discharge.

**pH Screening**

The draft permit includes pH limits of 6.0 – 9.0 SU at Outfall 001, which discharges into an unclassified water body. Consistent with the procedures for pH screening that were submitted to EPA

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with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 – 9.0 standard units reasonably ensures instream compliance with *Texas Surface Water Quality Standards* pH criteria. These limits have been carried forward in the draft permit.

**Whole Effluent Toxicity Testing (Biomonitoring)**

The proposed discharges authorized by this draft permit do not meet the threshold established in the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194) to impose biomonitoring requirements.

**SUMMARY OF CHANGES FROM APPLICATION**

No changes were made from the application.

**BASIS FOR DRAFT PERMIT**

The following items were considered in developing the draft permit:

1. Application received on October 3, 2024, and additional information received on April 10, 2025.
2. TCEQ Rules.
3. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 1, 2018, as approved by EPA Region 6.
4. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.
5. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not approved by EPA Region 6.
6. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not approved by EPA Region 6.
7. *Procedures to Implement the Texas Surface Water Quality Standards* (IPs), Texas Commission on Environmental Quality, June 2010, as approved by EPA Region 6.
8. *Procedures to Implement the Texas Surface Water Quality Standards*, Texas Commission on Environmental Quality, January 2003, for portions of the 2010 IPs not approved by EPA Region 6.
9. Memos from the Standards Implementation Team and Water Quality Assessment Team of the Water Quality Assessment Section of the TCEQ.
10. *Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits*, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.
11. EPA Effluent Guidelines: 40 CFR Part 445, Subpart B. A new source determination was performed and the discharge of landfill wastewater is a new source as defined at 40 CFR §122.2.
12. Consistency with the Coastal Management Plan: N/A.
13. Letter dated May 28, 2014, from L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for pH evaluation procedures).
14. Letter dated June 2, 2014, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for pH evaluation procedures).
15. General Guidance – Industrial Permits: Uncontaminated Stormwater Runoff, EPA, January 1997.

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**PROCEDURES FOR FINAL DECISION**

When an application is declared administratively complete, the chief clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for reviewing and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent to the Chief Clerk, along with the Executive Director's preliminary decision contained in the technical summary or fact sheet. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case hearing.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ commissioners for their consideration at a scheduled commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the commission grants a contested case hearing as described above, the commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Ruiqiang Zong at (512) 239-4589.

Ruiqiang Zong  
Ruiqiang Zong

July 3, 2025  
Date

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**TEXTTOX MENU #3 - PERENNIAL STREAM OR RIVER**

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life  
Table 2, 2018 Texas Surface Water Quality Standards for Human Health  
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

**PERMIT INFORMATION**

Permittee Name:	Bissonnet 136, LLC
TPDES Permit No.:	WQ0005467000
Outfall No.:	001
Prepared by:	RUIQIANG ZONG
Date:	July 3, 2025

**DISCHARGE INFORMATION**

Receiving Waterbody:	Harris County Flood Control Ditch (D120-00-00)	
Segment No.:	1007	
TSS (mg/L):	18	Value from Segment No. 1014
pH (Standard Units):	7.2	Value from Segment No. 1014
Hardness (mg/L as CaCO <sub>3</sub> ):	43	Value from Segment No. 1014
Chloride (mg/L):	70	Value from Segment No. 1014
Effluent Flow for Aquatic Life (MGD):	0.5	
Critical Low Flow [7Q2] (cfs):	28.08	
% Effluent for Chronic Aquatic Life (Mixing Zone):	2.68	
% Effluent for Acute Aquatic Life (ZID):	9.93	
Effluent Flow for Human Health (MGD):	0.5	
Harmonic Mean Flow (cfs):	41.11	
% Effluent for Human Health:	1.85	
Human Health Criterion (select: PWS, FISH, or INC)	FISH	

**CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):**

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	58029.80	0.489		1.00	Assumed
Cadmium	6.60	-1.13	151894.51	0.268		1.00	Assumed
Chromium (total)	6.52	-0.93	225214.62	0.198		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	225214.62	0.198		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	123338.41	0.311		1.80	30 TAC §307.10
Lead	6.45	-0.80	279114.24	0.166		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	94296.30	0.371		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	122199.47	0.313		1.00	Assumed
Zinc	6.10	-0.70	166459.75	0.250		1.00	Assumed

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AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>FW Chronic Criterion (µg/L)</i>	<i>WLAa (µg/L)</i>	<i>WLAc (µg/L)</i>	<i>LTAa (µg/L)</i>	<i>LTAc (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Aldrin	3.0	N/A	30.22	N/A	17.32	N/A	25.46	53.86
Aluminum	991	N/A	9984	N/A	5721	N/A	8409	17791
Arsenic	340	150	7003	11438	4013	8808	5899	12480
Cadmium	3.8	0.137	142.0	19.04	81.4	14.66	21.56	45.61
Carbaryl	2.0	N/A	20.15	N/A	11.55	N/A	16.97	35.91
Chlordane	2.4	0.004	24.18	0.1492	13.85	0.1149	0.1689	0.3573
Chlorpyrifos	0.083	0.041	0.836	1.529	0.479	1.177	0.704	1.490
Chromium (trivalent)	285	37	14533	6999	8327	5389	7922	16760
Chromium (hexavalent)	15.7	10.6	158.2	395.4	90.6	304.4	133.2	281.9
Copper	11.5	8.3	374.4	995.2	214.5	766.3	315.4	667
Cyanide (free)	45.8	10.7	461.4	399.1	264.4	307.3	388.6	822.2
4,4'-DDT	1.1	0.001	11.08	0.0373	6.350	0.0287	0.0422	0.0893
Demeton	N/A	0.1	N/A	3.730	N/A	2.872	4.222	8.932
Diazinon	0.17	0.17	1.713	6.341	0.981	4.882	1.443	3.052
Dicofol [Kelthane]	59.3	19.8	597.4	738.5	342.3	568.6	503.2	1064.6
Dieldrin	0.24	0.002	2.418	0.0746	1.385	0.0574	0.0844	0.1786
Diuron	210	70	2116	2611	1212	2010	1782	3770
Endosulfan I ( <i>alpha</i> )	0.22	0.056	2.216	2.089	1.270	1.608	1.867	3.950
Endosulfan II ( <i>beta</i> )	0.22	0.056	2.216	2.089	1.270	1.608	1.867	3.950
Endosulfan sulfate	0.22	0.056	2.216	2.089	1.270	1.608	1.867	3.950
Endrin	0.086	0.002	0.866	0.0746	0.496	0.0574	0.0844	0.1786
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.373	N/A	0.287	0.422	0.893
Heptachlor	0.52	0.004	5.24	0.1492	3.002	0.1149	0.1689	0.3573
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	1.126	0.08	11.34	2.984	6.500	2.298	3.377	7.145
Lead	25	0.99	1547	223.1	886	171.8	252.6	534
Malathion	N/A	0.01	N/A	0.373	N/A	0.287	0.422	0.893
Mercury	2.4	1.3	24.18	48.49	13.85	37.33	20.37	43.09
Methoxychlor	N/A	0.03	N/A	1.119	N/A	0.862	1.267	2.679
Mirex	N/A	0.001	N/A	0.0373	N/A	0.0287	0.0422	0.0893
Nickel	229	25.5	6231	2562	3570	1973	2900	6135
Nonylphenol	28	6.6	282.1	246.2	161.6	189.55	237.6	502.7
Parathion (ethyl)	0.065	0.013	0.655	0.485	0.375	0.373	0.549	1.161
Pentachlorophenol	10.7	8.2	107.4	305.2	61.6	235.0	90.5	191.5
Phenanthrene	30	30	302.2	1118.9	173.2	861.6	254.6	538.6
Polychlorinated Biphenyls [PCBs]	2.0	0.014	20.15	0.522	11.55	0.402	0.591	1.250
Selenium	20	5	201.5	186.49	115.5	143.59	169.7	359.1
Silver	0.8	N/A	153.40	N/A	87.90	N/A	129.21	273.4
Toxaphene	0.78	0.0002	7.858	0.00746	4.503	0.00574	0.00844	0.01786
Tributyltin [TBT]	0.13	0.024	1.310	0.895	0.750	0.689	1.013	2.144
2,4,5 Trichlorophenol	136	64	1370	2387	785.1	1838.0	1154	2442
Zinc	57	58	2308	8613	1322	6632	1944	4112

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**HUMAN HEALTH**

**CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:**

<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1.0	115	1150	6226.15	5790.32	8511.77	18007.89
Aldrin	1.146E-05	1.147E-05	1.147E-04	6.21E-04	5.78E-04	8.49E-04	1.80E-03
Anthracene	1109	1317	13170	71303	66312	97478	206230
Antimony	6	1071	10710	57984.4	53925.5	79270.5	167708.3
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	31455.6	29253.7	43002.9	90979.0
Benzidine	0.0015	0.107	1.07	5.7930	5.3875	7.9196	16.7552
Benzo(a)anthracene	0.024	0.025	0.25	1.354	1.259	1.850	3.915
Benzo(a)pyrene	0.0025	0.0025	0.025	0.1354	0.1259	0.185	0.391
Bis(chloromethyl)ether	0.0024	0.2745	2.745	14.8615	13.8212	20.317	42.984
Bis(2-chloroethyl)ether	0.60	42.83	428.3	2318.83	2156.52	3170.08	6706.77
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	408.8	380.1	558.8	1182.3
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	14888.6	13846.4	20354.2	43062
Bromoform [Tribromomethane]	66.9	1060	10600	57389	53372	78456	165986
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	2490.5	2316.1	3404.7	7203.2
Chlordane	0.0025	0.0025	0.025	0.1354	0.1259	0.185	0.391
Chlorobenzene	100	2737	27370	148182	137810	202580	428588
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	9907.7	9214.2	13544.8	28656.0
Chloroform [Trichloromethane]	70	7697	76970	416719	387549	569696	1205276
Chromium (hexavalent)	62	502	5020	27178	25276	37156	78608
Chrysene	2.45	2.52	25.2	136.43	126.88	186.5	394.6
Cresols [Methylphenols]	1041	9301	93010	503560	468311	688417	1456447
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.1083	0.1007	0.1480	0.3132
4,4'-DDE	0.00013	0.00013	0.0013	0.00704	0.00655	0.00962	0.0204
4,4'-DDT	0.0004	0.0004	0.004	0.0217	0.0201	0.0296	0.0626
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitrol [Fenpropathrin]	262	473	4730	25608	23816	35009	74067
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	229.555	213.487	313.825	663.94
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	32214	29959	44039	93171
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	178609	166107	244177	516592
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	121.27	112.79	165.79	350.76
1,2-Dichloroethane	5	364	3640	19707.1	18327.6	26941.6	56998.9
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	2.98E+7	2.77E+7	4.1E+6	8.6E+6
Dichloromethane [Methylene Chloride]	5	13333	133330	721854.4	671324.6	986847.1	2087819.4
1,2-Dichloropropane	5	259	2590	14022.4	13040.8	19170.0	40556.9
1,3-Dichloropropane [1,3-Dichloropropylene]	2.8	119	1190	6442.71	5991.72	8807.8	18634.3
Dicofof [Kelthane]	0.30	0.30	3	16.24	15.105	22.20	46.98
Dieldrin	2.0E-05	2.0E-05	2.0E-04	1.08E-03	1.01E-03	1.48E-03	3.13E-03
2,4-Dimethylphenol	444	8436	84360	456729	424758	624394	1320996
Di- <i>n</i> -Butyl Phthalate	88.9	92.4	924	5003	4652	6839	14469
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	4.31E-06	4.01E-06	5.90E-06	1.25E-05
Endrin	0.02	0.02	0.2	1.083	1.007	1.480	3.132
Epichlorohydrin	53.5	2013	20130	108985	101356	148993	315216
Ethylbenzene	700	1867	18670	101080	94005	138187	292354

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HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Ethylene Glycol	46744	1.68E+07	1.68E+08	9.1 E+8	8.4E+8	1.2 E+09	2.63E+09
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.00541	0.00504	0.00740	0.01566
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0157	0.0146	0.0215	0.0454
Hexachlorobenzene	0.00068	0.00068	0.0068	0.0368	0.0342	0.0503	0.1065
Hexachlorobutadiene	0.21	0.22	2.2	11.911	11.077	16.283	34.45
Hexachlorocyclohexane ( <i>alpha</i> )	0.0078	0.0084	0.084	0.455	0.423	0.622	1.315
Hexachlorocyclohexane ( <i>beta</i> )	0.15	0.26	2.6	14.077	13.091	19.244	40.71
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	0.2	0.341	3.41	18.462	17.170	25.239	53.40
Hexachlorocyclopentadiene	10.7	11.6	116	628.0	584.1	858.6	1816
Hexachloroethane	1.84	2.33	23.3	126.15	117.32	172.46	364.9
Hexachlorophene	2.05	2.90	29	157.01	146.02	214.64	454.1
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	865272	804703	1182914	2502627
Lead	1.15	3.83	38.3	1249.1	1161.7	1707.7	3612.9
Mercury	0.0122	0.0122	0.122	0.661	0.614	0.903	1.910
Methoxychlor	2.92	3.0	30	162.4	151.05	222.0	469.8
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	53707307	49947795	73423259	1.6E+8
Methyl <i>tert</i> -butyl ether [MTBE]	15	10482	104820	567500.0	527775.0	775829.2	1641380
Nickel	332	1140	11400	166480	154826	227594	481509
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	101405	94307	138631	293294
N-Nitrosodiethylamine	0.0037	2.1	21	113.695	105.736	155.432	328.840
N-Nitroso-di- <i>n</i> -Butylamine	0.119	4.2	42	227.390	211.473	310.865	657.68
Pentachlorobenzene	0.348	0.355	3.55	19.22	17.87	26.28	55.59
Pentachlorophenol	0.22	0.29	2.9	15.701	14.602	21.46	45.41
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0346	0.0322	0.0474	0.1002
Pyridine	23	947	9470	51271.0	47682.0	70093	148291
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	12.994	12.084	17.76	37.58
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	1426.60	1326.74	1950.31	4126.2
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	15159.3	14098.2	20724.3	43845.3
Thallium	0.12	0.23	2.3	12.452	11.581	17.024	36.02
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.596	0.554	0.814	1.722
2,4,5-TP [Silvex]	50	369	3690	19978	18579	27312	57782
1,1,1-Trichloroethane	200	784354	7843540	42465263	39492695	58054261	1.2e+8
1,1,2-Trichloroethane	5	166	1660	8987.3	8358.2	12286.6	25994.0
Trichloroethylene [Trichloroethene]	5	71.9	719	3892.7	3620.2	5321.7	11258.8
2,4,5-Trichlorophenol	1039	1867	18670	101080	94005	138187	292354
TTM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	893.317	830.785	1221.254	2583.741

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CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life	70% of Daily Avg.	85% of Daily Avg.
<i>Parameter</i>	<i>(µg/L)</i>	<i>(µg/L)</i>
Aldrin	17.82	21.64
Aluminum	5887	7148
Arsenic	4129	5014
Cadmium	15.09	18.32
Carbaryl	11.88	14.43
Chlordane	0.1182	0.1435
Chlorpyrifos	0.493	0.599
Chromium (trivalent)	5545	6734
Chromium (hexavalent)	93.3	113.2
Copper	220.8	268.1
Cyanide (free)	272.1	330.3
4,4'-DDT	0.0296	0.0359
Demeton	2.955	3.588
Diazinon	1.010	1.226
Dicofol [Kelthane]	352.2	427.7
Dieldrin	0.0591	0.0718
Diuron	1247	1515
Endosulfan I ( <i>alpha</i> )	1.307	1.587
Endosulfan II ( <i>beta</i> )	1.307	1.587
Endosulfan sulfate	1.307	1.587
Endrin	0.0591	0.0718
Guthion [Azinphos Methyl]	0.296	0.359
Heptachlor	0.1182	0.1435
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	2.364	2.871
Lead	176.8	214.7
Malathion	0.296	0.359
Mercury	14.26	17.31
Methoxychlor	0.887	1.077
Mirex	0.0296	0.0359
Nickel	2030	2465
Nonylphenol	166.32	202.0
Parathion (ethyl)	0.384	0.466
Pentachlorophenol	63.4	76.9
Phenanthrene	178.2	216.4
Polychlorinated Biphenyls [PCBs]	0.414	0.502
Selenium	118.80	144.26
Silver	90.44	109.83
Toxaphene	0.00591	0.00718
Tributyltin [TBT]	0.709	0.861
2,4,5 Trichlorophenol	807.8	981
Zinc	1361	1652

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Human Health	70% of Daily Avg.	85% of Daily Avg.
<i>Parameter</i>	<i>(µg/L)</i>	<i>(µg/L)</i>
Acrylonitrile	5958.24	7235.00
Aldrin	5.94E-04	7.22E-04
Anthracene	68235	82857
Antimony	55489.3	67379.9
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	30102.1	36552.5
Benzidine	5.5438	6.7317
Benzo(a)anthracene	1.295	1.573
Benzo(a)pyrene	0.1295	0.1573
Bis(chloromethyl)ether	14.2221	17.2696
Bis(2-chloroethyl)ether	2219.06	2694.57
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	391.2	475.0
Bromodichloromethane [Dichlorobromomethane]	14248.0	17301.1
Bromoform [Tribromomethane]	54919	66688
Cadmium	N/A	N/A
Carbon Tetrachloride	2383.3	2894.0
Chlordane	0.1295	0.1573
Chlorobenzene	141806	172193
Chlorodibromomethane [Dibromochloromethane]	9481.4	11513.1
Chloroform [Trichloromethane]	398787	484242
Chromium (hexavalent)	26009	31582
Chrysene	130.56	158.54
Cresols [Methylphenols]	481892	585155
Cyanide (free)	N/A	N/A
4,4'-DDD	0.1036	0.1258
4,4'-DDE	0.00674	0.00818
4,4'-DDT	0.0207	0.0252
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	24506	29758
1,2-Dibromoethane [Ethylene Dibromide]	219.678	266.751
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	30827	37433
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	170924	207550
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	116.06	140.93
1,2-Dichloroethane	18859.1	22900.4
1,1-Dichloroethylene [1,1-Dichloroethene]	2855498.6	3467391.2
Dichloromethane [Methylene Chloride]	690793.0	838820.0
1,2-Dichloropropane	13419.0	16294.5
1,3-Dichloropropene [1,3-Dichloropropylene]	6165.48	7486.7
Dicofol [Kelthane]	15.543	18.87
Dieldrin	1.04E-03	1.26E-03
2,4-Dimethylphenol	437076	530735
Di- <i>n</i> -Butyl Phthalate	4787	5813
Dioxins/Furans [TCDD Equivalents]	4.13E-06	5.01E-06
Endrin	1.036	1.258
Epichlorohydrin	104295	126644
Ethylbenzene	96731	117459
Ethylene Glycol	870420897	1056939661
Fluoride	N/A	N/A
Heptachlor	0.00518	0.00629

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Human Health	70% of Daily Avg.	85% of Daily Avg.
<i>Parameter</i>	<i>(µg/L)</i>	<i>(µg/L)</i>
Heptachlor Epoxide	0.01503	0.01824
Hexachlorobenzene	0.0352	0.0428
Hexachlorobutadiene	11.398	13.841
Hexachlorocyclohexane ( <i>alpha</i> )	0.435	0.528
Hexachlorocyclohexane ( <i>beta</i> )	13.471	16.357
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	17.667	21.453
Hexachlorocyclopentadiene	601.0	729.8
Hexachloroethane	120.72	146.59
Hexachlorophene	150.25	182.45
4,4'-Isopropylidenediphenol [Bisphenol A]	828040	1005477
Lead	1195.4	1451.5
Mercury	0.632	0.768
Methoxychlor	155.43	188.7
Methyl Ethyl Ketone	51396282	62409770
Methyl <i>tert</i> -butyl ether [MTBE]	543080.5	659454.9
Nickel	159316	193455
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	97042	117836
N-Nitrosodiethylamine	108.803	132.117
N-Nitroso-di- <i>n</i> -Butylamine	217.605	264.235
Pentachlorobenzene	18.39	22.33
Pentachlorophenol	15.025	18.245
Polychlorinated Biphenyls [PCBs]	0.0332	0.0403
Pyridine	49064.8	59578.7
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	12.435	15.099
1,1,2,2-Tetrachloroethane	1365.21	1657.76
Tetrachloroethylene [Tetrachloroethylene]	14507.0	17615.7
Thallium	11.916	14.470
Toluene	N/A	N/A
Toxaphene	0.570	0.692
2,4,5-TP [Silvex]	19118	23215
1,1,1-Trichloroethane	40637983	49346122
1,1,2-Trichloroethane	8600.6	10443.6
Trichloroethylene [Trichloroethene]	3725.2	4523.5
2,4,5-Trichlorophenol	96731	117459
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	854.878	1038.066

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**Appendix B**  
**TDS, Chloride, and Sulfate Screening Calculations**

**Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate**

**Menu 3 - Discharge to a Perennial Stream or River**

<b>Applicant Name:</b>	<b>Bissonnet 136, LLC</b>
<b>Permit Number, Outfall:</b>	<b>001</b>
<b>Segment Number:</b>	<b>1007</b>

Enter values needed for screening:	Data Source (edit if different)		
QE - Average effluent flow	<b>0.5</b>	MGD	
QS - Perennial stream harmonic mean flow	<b>41.11</b>	cfs	Critical conditions memo
QE - Average effluent flow	<b>0.7736</b>	cfs	Calculated
CA - TDS - ambient segment concentration	<b>375</b>	mg/L	2010 IP, Appendix D Use Segment 1014
CA - chloride - ambient segment concentration	<b>70</b>	mg/L	2010 IP, Appendix D Use Segment 1014
CA - sulfate - ambient segment concentration	<b>24</b>	mg/L	2010 IP, Appendix D Use Segment 1014
CC - TDS - segment criterion	<b>600</b>	mg/L	2014 TSWQS, Appendix A Segment 1014
CC - chloride - segment criterion	<b>110</b>	mg/L	2014 TSWQS, Appendix A Segment 1014
CC - sulfate - segment criterion	<b>65</b>	mg/L	2014 TSWQS, Appendix A Segment 1014
CE - TDS - average effluent concentration	<b>1135</b>	mg/L	Permit application
CE - chloride - average effluent concentration	<b>44.7</b>	mg/L	Permit application
CE - sulfate - average effluent concentration	<b>11.8</b>	mg/L	Permit application

**Screening Equation**

$$CC \geq [(QS)(CA) + (QE)(CE)] / [QE + QS]$$

<b>No further screening for TDS needed if:</b>	<b>389.04</b>	≤	<b>600</b>
<b>No further screening for chloride needed if:</b>	<b>69.53</b>	≤	<b>110</b>
<b>No further screening for sulfate needed if:</b>	<b>23.77</b>	≤	<b>65</b>

**Permit Limit Calculations**

**TDS**

Calculate the WLA	WLA = [CC(QE+QS) - (QS)(CA)]/QE	12553.62
Calculate the LTA	LTA = WLA * 0.93	11674.87

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Calculate the daily average	Daily Avg. = LTA * 1.47	<b>17162.05</b>
Calculate the daily maximum	Daily Max. = LTA * 3.11	<b>36308.84</b>
Calculate 70% of the daily average	70% of Daily Avg. =	12013.44
Calculate 85% of the daily average	85% of Daily Avg. =	14587.75

<b>No permit limitations needed if:</b>	<b>1135</b>	≤	<b>12013.44</b>	
<b>Reporting needed if:</b>	<b>1135</b>	>	<b>12013.44</b>	<b>but ≤ 14587.75</b>
<b>Permit limits may be needed if:</b>	<b>1135</b>	>	<b>14587.75</b>	

**No permit limitations needed for TDS**

**Chloride**

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	2235.09
Calculate the LTA	LTA = WLA * 0.93	2078.63
Calculate the daily average	Daily Avg. = LTA * 1.47	<b>3055.59</b>
Calculate the daily maximum	Daily Max. = LTA * 3.11	<b>6464.55</b>
Calculate 70% of the daily average	70% of Daily Avg. =	2138.91
Calculate 85% of the daily average	85% of Daily Avg. =	2597.25

<b>No permit limitations needed if:</b>	<b>44.7</b>	≤	<b>2138.91</b>	
<b>Reporting needed if:</b>	<b>44.7</b>	>	<b>2138.91</b>	<b>but ≤ 2597.25</b>
<b>Permit limits may be needed if:</b>	<b>44.7</b>	>	<b>2597.25</b>	

**No permit limitations needed for chloride**

**Sulfate**

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	2243.22
Calculate the LTA	LTA = WLA * 0.93	2086.19
Calculate the daily average	Daily Avg. = LTA * 1.47	<b>3066.70</b>
Calculate the daily maximum	Daily Max. = LTA * 3.11	<b>6488.05</b>
Calculate 70% of the daily average	70% of Daily Avg. =	2146.69
Calculate 85% of the daily average	85% of Daily Avg. =	2606.69

<b>No permit limitations needed if:</b>	<b>11.8</b>	≤	<b>2146.69</b>	
<b>Reporting needed if:</b>	<b>11.8</b>	>	<b>2146.69</b>	<b>but ≤ 2606.69</b>
<b>Permit limits may be needed if:</b>	<b>11.8</b>	>	<b>2606.69</b>	

**No permit limitations needed for sulfate**

STATEMENT OF BASIS / TECHNICAL SUMMARY AND  
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION  
TPDES Permit No. WQ0005467000

**Appendix C**  
**Comparison of Effluent Limits**

The following table is a summary of technology-based effluent limitations calculated/assessed in the draft permit (Technology-Based), calculated/assessed water quality-based effluent limitations (Water Quality-Based), and proposed effluent limitations in the draft permit.

Outfall	Pollutant	Technology-Based		Water Quality-Based		proposed limitations	
		Daily Avg	Daily Max	Daily Avg	Daily Max	Daily Avg	Daily Max
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
001	Flow	0.50 MGD	9.1 MGD	-	-	0.50 MGD	9.1 MGD
	BOD, 5-day	37	140	37	-	37	140
	TSS	27	88	-	-	27	88
	Ammonia as N	4.9	10	-	-	4.9	10
	$\alpha$ -Terpineol	0.016	0.033	-	-	0.016	0.033
	Benzoic acid	0.071	0.12	-	-	0.071	0.12
	p-Cresol	0.014	0.025	-	-	0.014	0.025
	Phenol	0.015	0.026	-	-	0.015	0.026
	Dissolved Oxygen (minimum)	-	-	2.0	-	2.0	-
	Total Barium	-	-	1.0	4.0	1.0	4.0
	Total Zinc	0.11	0.20	1.94	4.11	0.11	0.20
	Oil and Grease	N/A	15	-	-	N/A	15
	<i>E. coli.</i>	-	-	-	-	Report <sup>1</sup>	-
	pH	6.0 SU (minimum)	9.0 SU (maximum)	-	-	6.0 SU (minimum)	9.0 SU (maximum)

<sup>1</sup> colony forming units (cfu) or most probable number (MPN) per 100 milliliters (mL).