

Allen Amsler, *Chairman* Ann B. Kirol, DDS, *Secretary* R. Kenyon Wells Board: Charles M. Joye II, P.E. L. Clarence Batts, Jr. David W. Gillespie, MD

South Carolina Board of Health and Environmental Control

Agenda April 5, 2017

Call to Order – 10:00 a.m., Board Room (#3420) South Carolina Department of Health and Environmental Control 2600 Bull Street, Columbia, S.C.

- 1. Minutes of March 9 meeting
- 2. Placement of Dronabinol (Syndros) Into Schedule II SC Controlled Substances.
- 3. Final Review Conference Docket No. 17-RFR-12, Keenan Energy Group f/k/a Keenan Oil Co.

Executive Session (if needed)

Adjournment

Note: The April 13 meeting of the S.C. Board of Health and Environmental Control has been cancelled. The next scheduled meeting will be May 11.

BOARD OF HEALTH AND ENVIRONMENTAL CONTROL

Summary Sheet April 5, 2017

<u>X</u> Action

____ Information

I. SUBJECT: Placement of Dronabinol (Syndros) into Schedule II for Controlled Substances

II. FACTS: Controlled substances are governed by the Controlled Substances Act (CSA), found at Title 44, Chapter 53, of the S.C. Code of Laws. Section 44-53-160 is titled "Manner in which changes in schedule of controlled substances shall be made." Pursuant to this section, controlled substances are generally designated by the General Assembly, upon recommendation by DHEC. Schedule II substances are listed in Section 44-53-210. Section 44-53-160(C) provides a process by which DHEC can expeditiously designate substance as a controlled substance if the federal government has so designated.

Section 44-53-160(C) states:

If a substance is added, deleted, or rescheduled as a controlled substance pursuant to federal law or regulation, the department shall, at the first regular or special meeting of the South Carolina Board of Health and Environmental Control within thirty days after publication in the federal register of the final order designating the substance as a controlled substance or rescheduling or deleting the substance, add, delete, or reschedule the substance in the appropriate schedule. The addition, deletion, or rescheduling of a substance by the department pursuant to this subsection has the full force of law unless overturned by the General Assembly. The addition, deletion, or rescheduling of a substance by the department pursuant to this subsection must be in substance identical with the order published in the federal register effecting the change in federal status of the substance. Upon the addition, deletion, or rescheduling of a substance, the department shall forward copies of the change to the Chairman of the Medical Affairs Committee and the Judiciary Committee of the Senate, the Medical, Military, Public and Municipal Affairs Committee and the Judiciary Committee of the House of Representatives, and to the Clerks of the Senate and House, and shall post the schedules on the department's website indicating the change and specifying the effective date of the change.

On July 1, 2016, the U.S. Food and Drug Administration (FDA) approved a new drug application for Syndros, a drug product consisting of dronabinol [(-)-delta-9-transtetrahydrocannabinol (delta-9-THC)] oral solution. Thereafter, the Department of Health and Human Services (HHS) provided the Drug Enforcement Administration (DEA) with a scheduling recommendation that would result in Syndros (and other oral solutions containing dronabinol) being placed in schedule II of the Controlled Substances Act (CSA). In accordance with the CSA, as revised by the Improving Regulatory Transparency for New Medical Therapies Act, DEA is hereby issuing an interim final rule placing FDA-approved products of oral solutions containing dronabinol in schedule II of the CSA. DATES: The effective date of this rulemaking is March 23, 2017. <u>https://www.gpo.gov/fdsys/pkg/FR-2017-03-23/pdf/2017-05809.pdf</u>.

Federal Authority

Under the Improving Regulatory Transparency for New Medical Therapies Act (Pub. L. 114– 89), which was signed into law on November 25, 2015, DEA is required to commence an expedited scheduling action with respect to certain new drugs approved by the FDA. As provided in 21 U.S.C. 811(j), this expedited scheduling is required where both of the following conditions apply:

(1) The Secretary of HHS has advised DEA that a New Drug Application (NDA) has been submitted for a drug that has a stimulant, depressant, or hallucinogenic effect on the central nervous system, and that it appears that such drug has an abuse potential and (2) the Secretary recommends that DEA control the drug in schedule II, III, IV, or V pursuant to 21 U.S.C. 811(a) and (b).

In these circumstances, DEA is required to issue an interim final rule controlling the drug within 90 days. The law further states that the 90-day timeframe starts the later of:

(1) the date DEA receives the HHS scientific and medical evaluation/scheduling recommendation or

(2) the date DEA receives notice of the NDA approval by HHS. In addition, the law specifies that the rulemaking shall become immediately effective as an interim final rule without requiring the DEA to demonstrate good cause therefor.

Thus, the purpose of subsection (j) is to speed the process by which DEA schedules newly approved drugs that are currently either in schedule I or not controlled (but which have sufficient abuse potential to warrant control) so that such drugs may be marketed without undue delay following FDA approval.

Subsection (j) further provides that the interim final rule shall give interested persons the opportunity to comment and to request a hearing. After the conclusion of such proceedings, DEA must issue a final rule in accordance with the scheduling criteria of subsections 21 U.S.C. 811(b), (c), and (d) and 21 U.S.C. 812(b).

Background

Syndros is an oral solution that contains 5 mg of dronabinol (delta-9- THC) per mL of solution. Dronabinol is the generic name (International Nonproprietary Name, INN) for the (-) delta-9- trans isomer of tetrahydrocannabinol (THC), the primary psychoactive substance in marijuana. On June 1, 2015, Insys Therapeutics (Sponsor) submitted an NDA to the U.S. Food and Drug Administration (FDA) for Syndros, an oral formulation of dronabinol. The FDA accepted the NDA filing for Syndros on August 6, 2015 and approved the NDA on July 5, 2016. On December 28, 2016, the DEA received notification that HHS/FDA approved Syndros for the treatment of anorexia associated with weight loss in patients with Acquired Immune Deficiency Syndrome (AIDS), and for the treatment of nausea and vomiting resulting from cancer chemotherapy in patients who failed to respond to conventional antiemetic therapies.

Determination To Schedule FDA Approved Products Containing Dronabinol in an Oral Solution

On December 28, 2016, the HHS provided the DEA with a scientific and medical evaluation and scheduling recommendation related to dronabinol. Because DEA's authority to issue this interim final rule under subsection 811(j) is limited to drugs that are the subject of an approved NDA, and because the NDA was limited to an oral solution containing dronabinol, DEA's discussion here of the scheduling criteria is likewise limited to oral solutions containing dronabinol in FDA approved drug products.

2. HHS's scientific and medical evaluation contained an eight-factor analysis of the abuse potential of FDA-approved products of oral solutions containing dronabinol and recommended that such products be placed in schedule II of the CSA. In response, the DEA reviewed the scientific and medical evaluation and scheduling recommendation provided by the HHS, along with all other relevant data, and completed its own eight-factor review document pursuant to 21 U.S.C. 811(c). The DEA concluded that FDA-approved dronabinol oral solutions met the 21 U.S.C. 812(b)(2) criteria for placement in schedule II of the CSA. Pursuant to subsection 811(j), and based on the HHS recommendation, NDA approval by HHS/FDA, and DEA's determination, DEA is issuing this interim final rule to schedule FDA approved dronabinol oral solution oral solution as a schedule II controlled substance under the CSA.

Included below is a brief summary of each factor as analyzed by the HHS and the DEA, and as considered by the DEA in its scheduling action:

Eight-Factor Analysis

1. <u>Its Actual or Relative Potential for Abuse</u>: Dronabinol is a generic name for the (-) delta-9-trans isomer of tetrahydrocannabinol (THC). THC is the primary psychoactive substance in marijuana. Dronabinol is the active pharmaceutical ingredient in Syndros. As stated by HHS, Marinol (synthetic dronabinol in sesame oil and encapsulated in a soft gelatin capsule) was approved by the FDA for medical use on May 31, 1985 and placed in schedule II based on its accepted medical use and high abuse potential. On July 2, 1999, Marinol was rescheduled from schedule II to schedule III because of the findings of the DEA that the difficulty of separating dronabinol from the sesame oil formulation and the delayed onset of behavioral effects due to oral route administration supported a lower abuse potential of Marinol as compared to substances in Schedule II.

HHS indicated that the formulation of Syndros (oral solution) is easier to abuse than Marinol because this liquid formulation can be manipulated to produce concentrated extracts of dronabinol for abuse by inhalation (smoking or vaping) or through other routes of administration. Because of the large amount of dronabinol in Syndros oral solution it has a greater potential for extraction than Marinol and thus has a greater abuse potential. Syndros oral solution can be easily manipulated to other forms that can be easily abused through inhalation and oral routes of administration. The 2014 and 2015 Monitoring the Future (MTF) 3 survey indicated that THC containing products are being taken orally, smoked, and vaporized using devices such as e-cigarettes. There is a lack of evidence pertaining to diversion of Syndros or Marinol from

legitimate drug channels. Syndros is not yet available on the market. Marinol and generic forms that reference it, have low levels of abuse and diversion according to the HHS and DEA, and this is attributed to the formulation of dronabinol in sesame oil.

2. <u>Scientific Evidence of Its Pharmacological Effects, if Known</u>: Dronabinol, also known as THC, is the primary psychoactive substance in marijuana and is also the active pharmaceutical ingredient in Syndros and Marinol. Some behavioral and other effects of dronabinol in humans consist of dizziness, nausea, tachycardia, euphoria, enhanced sensory perception, heightened imagination, impaired judgment, emotional lability, and increased appetite. Discriminative stimulus effects of dronabinol are specific to CB1 cannabinoids, and unique because stimulants, hallucinogens, opioids, benzodiazepines, barbiturates, NMDA antagonists, and antipsychotics do not generalize to dronabinol.

3. <u>The State of Current Scientific Knowledge Regarding the Drug or Other Substance</u>: Dronabinol is the generic name for (-)delta-9-transtetrahydrocannabinol (THC) and is chemically known as (-)-(6aR-trans)- 6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3- pentyl-6H-dibenzo[b,d]pyran-1-ol and has the chemical formula C21H30O2. It was found that Syndros oral solution and Marinol capsules differ in their physiochemical properties. Specifically, Syndros, unlike Marinol, can be manipulated such that the dronabinol can be evaporated into residues that can be reconstituted for smoking or abused intravenously. According to HHS, Syndros contains a large amount of dronabinol (150 mg of dronabinol in 30 mL of solution) and would be an easily accessible source for abuse via the oral route.

4. <u>Its History and Current Pattern of Abuse</u>: There is a long history of abuse of THC in the United States. HHS noted that dronabinol in Marinol capsules is difficult to extract and therefore, cannot be used for smoking, vaping, or as an edible. The dronabinol in Syndros, however, is relatively easy to extract and concentrated forms can be used for smoking, vaping, or the sweetened alcoholic dronabinol in Syndros can be used as a substitute for THC in edibles. In the 2015 MTF survey, it was reported that teens were more likely to use ecigarettes (vaping) than regular cigarettes (smoking). In this survey, 6.1 percent of 12th graders reported vaporizing marijuana or hash oil in their last e-cigarette. Additionally, in a recent analysis of marijuana users, 12 percent of users preferred vaping the drug over any other method and considered it a safer alternative to smoking. As a result, these data suggest that if dronabinol extracts or concentrates are available from dronabinol sources such as Syndros, a certain percent of the population are likely to vape these substances.

5. <u>The Scope, Duration, and Significance of Abuse</u>: As noted by HHS, information on the scope, duration, and significance of abuse of dronabinol was considered for both oral and inhalation routes. Data analyzed from the 2014 Summer Styles Survey, a national representative consumer panel survey of adult marijuana users aged 18 or older, showed that the majority of current marijuana users prefer smoking marijuana. In the same survey, it was reported that 16 percent of the current users consumed THC containing edibles or drinks. Individuals who preferred vaping (using a device to vaporize liquid THC) believed that vaping is "healthier, better tasting" and resulted in "better effects" associated with marijuana and THC.

6. What, if any, Risk There is to the Public Health: As stated by HHS, labeling on the Marinol packaging indicates that Central Nervous System (CNS) adverse reactions are doserelated and subject to patient variability. CNS adverse reactions are more likely to occur at higher doses of dronabinol. Following oral Marinol (dronabinol) doses of 0.4 mg/kg, CNS symptoms such as amnesia, confusion, delusions, depression, and hallucinations have been observed. According to HHS, it is assumed that Syndros oral solution will have similar adverse effects to Marinol. One concern with Syndros is that there is a large amount of dronabinol present in the product (150 mg dronabinol per bottle, 30 mL solution) that can easily be abused orally and may result in unintended overdoses. Oral consumption of dronabinol, compared to inhaled THC, may result in psychoactive effects that are delayed and stronger with an increased risk of experiencing serious adverse events. When dronabinol (THC) is smoked, the drug rapidly reaches the brain and psychoactive effects are felt within minutes of inhalation, which allows the subject to control the dose more readily. Due to the absorption and metabolism by the liver following oral ingestion of dronabinol, it takes longer for an individual to feel the psychoactive effects. Therefore, the individual may underestimate the ingestion amount needed to feel the psychoactive effects

7. <u>Its Psychic or Physiological Dependence Liability</u>: As stated in labeling for Marinol and Syndros, psychological and physical dependence has been observed in healthy individuals following use of dronabinol. Abrupt discontinuation of dronabinol in individuals receiving 210 mg/day (25 times the recommended daily dose for the treatment of anorexia associated with weight loss in AIDS patients) for 12 to 16 days resulted in undesirable symptoms including insomnia, irritability, and restlessness at 12 hours after discontinuation. These symptoms worsened to include hot flashes, anorexia, sweating, rhinorrhea, loose stools, and hiccoughs at 24 hours after discontinuation of dronabinol.

8. <u>Whether the Substance is an Immediate Precursor of a Substance Already Controlled</u> <u>under the CSA</u>: Dronabinol oral solution is not an immediate precursor of any controlled substance.

Conclusion

After considering the scientific and medical evaluation conducted by the HHS, the HHS' recommendation, and its own eight-factor analysis, the DEA has determined that these facts and all relevant data constitute substantial evidence of a potential for abuse of dronabinol oral solution. As such, the DEA hereby schedules FDA-approved products containing dronabinol oral solution as controlled substances under the CSA.

Determination of Appropriate Schedule

The CSA lists the findings required to place a drug or other substance in any particular Schedule (I, II, III, IV, or V). 21 U.S.C. 812(b). After consideration of the analysis and recommendation of the Assistant Secretary for Health of the HHS and review of all available data, the Acting Administrator of the DEA, pursuant to 21 U.S.C. 812(b)(2), finds that:

1. <u>FDA-approved products containing dronabinol in an oral solution have a high potential for abuse.</u> The physicochemical properties of Syndros allow extraction of dronabinol for abuse through oral or inhalation (smoking or vaping) routes. Dronabinol is not easily extractable from Marinol. Oral abuse of dronabinol-containing products is associated with hallucinations, mood alterations, and paranoia. The 2015 MTF Survey reported that 6.1 percent of the 12th graders used e-cigarettes to vaporize marijuana or cannabinoid substances. Similarly, the 2014 Summer Styles Survey, 16 percent of current marijuana users indicated that they have consumed dronabinol containing edibles or drinks. These data collectively indicate FDA-approved oral solutions containing dronabinol have high potential for abuse.

2. <u>FDA-approved products containing dronabinol in an oral solution have a currently accepted</u> <u>medical use in treatment in the United States.</u> The FDA approved an oral solution containing dronabinol (Syndros) for the treatment of anorexia associated with weight loss in patients with AIDS, and for the treatment of nausea and vomiting associated with cancer chemotherapy in patients who have failed to respond adequately to conventional antiemetic treatments.

3. <u>FDA-approved products containing dronabinol in an oral solution may lead to severe physical dependence.</u> Following discontinuation of dronabinol at a dose 210 mg/day (25 times higher than the recommended daily dose for anorexia associated with weight loss in AIDS patients) for 12 to 16 consecutive days, withdrawal symptoms including irritability, insomnia, and restlessness were observed at 12 hours after discontinuation. These withdrawal symptoms worsened to include hot flashes, sweating, rhinorrhea, loose stools, hiccoughs, and anorexia at 24 hours after discontinuation. The withdrawal symptoms decreased gradually over the next 48 hours and patients reported having disturbed sleep for several weeks after discontinuation of dronabinol.

Based on these findings, the Acting Administrator of the DEA concludes that FDA-approved products containing dronabinol [(-)-delta-9-trans tetrahydrocannabinol (delta-9-THC)] in an oral solution warrant control in schedule II of the CSA. 21 U.S.C. 812(b)(2).

<u>RECOMMENDATION</u>: Department staff recommend the Board place dronabinol [(-)-delta-9trans tetrahydrocannabinol (delta-9-THC)] in an oral solution, also known by the brand name Syndros, into Scheduled II of the SC Controlled Substances Act, effective immediately.

Lin Thomson

Lisa Thomson, Bureau Chief Bureau of Drug Control

March 29, 2017

Shelly Kelly, Deputy Director Health Regulations

DEPARTMENT OF JUSTICE

Drug Enforcement Administration

21 CFR Part 1308

[Docket No. DEA-344]

Schedules of Controlled Substances: Placement of FDA-Approved Products of Oral Solutions Containing Dronabinol [(-)-delta-9-transtetrahydrocannabinol (delta-9-THC)] in Schedule II

AGENCY: Drug Enforcement Administration, Department of Justice. **ACTION:** Interim final rule, with request for comments.

SUMMARY: On July 1, 2016, the U.S. Food and Drug Administration (FDA) approved a new drug application for Syndros, a drug product consisting of dronabinol [(-)-delta-9-transtetrahydrocannabinol (delta-9-THC)] oral solution. Thereafter, the Department of Health and Human Services (HHS) provided the Drug Enforcement Administration (DEA) with a scheduling recommendation that would result in Syndros (and other oral solutions containing dronabinol) being placed in schedule II of the Controlled Substances Act (CSA). In accordance with the CSA, as revised by the Improving Regulatory Transparency for New Medical Therapies Act, DEA is hereby issuing an interim final rule placing FDA-approved products of oral solutions containing dronabinol in schedule II of the CSA. DATES: The effective date of this

DATES: The effective date of this rulemaking is March 23, 2017. Interested persons may file written comments on this rulemaking in accordance with 21 CFR 1308.43(g). Electronic comments must be submitted, and written comments must be postmarked, on or before April 24, 2017. Commenters should be aware that the electronic Federal Docket Management System will not accept comments after 11:59 p.m. Eastern Time on the last day of the comment period.

Interested persons, defined at 21 CFR 1300.01 as those "adversely affected or aggrieved by any rule or proposed rule issuable pursuant to section 201 of the Act (21 U.S.C. 811)," may file a request for hearing or waiver of hearing pursuant to 21 CFR 1308.44. Requests for hearing and waivers of an opportunity for a hearing or to participate in a hearing must be received on or before April 24, 2017. **ADDRESSES:** To ensure proper handling of comments, please reference "Docket No. DEA-344" on all correspondence, including any attachments.

• Electronic comments: The Drug Enforcement Administration encourages that all comments be submitted electronically through the Federal eRulemaking Portal, which provides the ability to type short comments directly into the comment field on the Web page or attach a file for lengthier comments. Please go to http://www.regulations.gov and follow the online instructions at that site for submitting comments. Upon completion of your submission, you will receive a Comment Tracking Number for your comment. Please be aware that submitted comments are not instantaneously available for public view on Regulations.gov. If you have received a Comment Tracking Number, your comment has been successfully submitted and there is no need to resubmit the same comment.

• Paper comments: Paper comments that duplicate the electronic submission are not necessary and are discouraged. Should you wish to mail a paper comment *in lieu of* an electronic comment, it should be sent via regular or express mail to: Drug Enforcement Administration, Attn: DEA Federal Register Representative/DRW, 8701 Morrissette Drive, Springfield, VA 22152.

• Hearing requests: All requests for hearing and waivers of participation must be sent to: Drug Enforcement Administration, Attn: Acting Administrator, 8701 Morrissette Drive, Springfield, Virginia 22152. All requests for hearing and waivers of participation should also be sent to: (1) Drug Enforcement Administration, Attn: Hearing Clerk/LJ, 8701 Morrissette Drive, Springfield, Virginia 22152; and (2) Drug Enforcement Administration, Attn: DEA Federal Register Representative/DRW, 8701 Morrissette Drive, Springfield, Virginia 22152.

FOR FURTHER INFORMATION CONTACT:

Michael J. Lewis, Diversion Control Division, Drug Enforcement Administration; Mailing Address: 8701 Morrissette Drive, Springfield, Virginia 22152; Telephone: (202) 598–8953. SUPPLEMENTARY INFORMATION:

Posting of Public Comments

Please note that all comments received are considered part of the public record. They will, unless reasonable cause is given, be made available by the Drug Enforcement Administration (DEA) for public inspection online at *http:// www.regulations.gov*. Such information includes personal identifying information (such as your name, address, etc.) voluntarily submitted by the commenter. The Freedom of

Information Act (FOIA) applies to all comments received. If you want to submit personal identifying information (such as your name, address, etc.) as part of your comment, but do not want it to be made publicly available, you must include the phrase "PERSONAL IDENTIFYING INFORMATION" in the first paragraph of your comment. You must also place all of the personal identifying information you do not want made publicly available in the first paragraph of your comment and identify what information you want redacted.

If you want to submit confidential business information as part of your comment, but do not want it to be made publicly available, you must include the phrase "CONFIDENTIAL BUSINESS INFORMATION" in the first paragraph of your comment. You must also prominently identify the confidential business information to be redacted within the comment.

Comments containing personal identifying information and confidential business information identified as directed above will generally be made publicly available in redacted form. If a comment has so much confidential business information or personal identifying information that it cannot be effectively redacted, all or part of that comment may not be made publicly available. Comments posted to http:// www.regulations.gov may include any personal identifying information (such as name, address, and phone number) included in the text of your electronic submission that is not identified as directed above as confidential.

An electronic copy of this document and supplemental information, including the complete Department of Health and Human Services and Drug Enforcement Administration eight-factor analyses, to this interim final rule are available at *http://www.regulations.gov* for easy reference.

Request for Hearing, Notice of Appearance at Hearing, or Waiver of Participation in Hearing

Pursuant to 21 U.S.C. 811(a), this action is a formal rulemaking "on the record after opportunity for a hearing." Such proceedings are conducted pursuant to the provisions of the Administrative Procedure Act (APA), 5 U.S.C. 551–559. 21 CFR 1308.41– 1308.45; 21 CFR part 1316, subpart D. In accordance with 21 CFR 1308.44(a) through (c), requests for a hearing, notices of appearance, and waivers of an opportunity for a hearing or to participate in a hearing may be submitted only by interested persons, defined as those "adversely affected or aggrieved by any rule or proposed rule

issuable pursuant to section 201 of the Act (21 U.S.C. 811)." 21 CFR 1300.01. Requests for a hearing and notices of participation must conform to the requirements of 21 CFR 1308.44(a) or (b), as applicable, and include a statement of the interest of the person in the proceeding and the objections or issues, if any, concerning which the person desires to be heard. Any waiver of an opportunity for a hearing must conform to the requirements of 21 CFR 1308.44(c) including a written statement regarding the interested person's position on the matters of fact and law involved in any hearing.

Please note that pursuant to 21 U.S.C. 811(a), the purpose and subject matter of the hearing are restricted to "(A) find[ing] that such drug or other substance has a potential for abuse, and (B) mak[ing] with respect to such drug or other substance the findings prescribed by subsection (b) of section 812 of this title for the schedule in which such drug is to be placed * * *." Requests for a hearing and waivers of participation in the hearing should be submitted to DEA using the address information provided above.

Legal Authority

Under the Improving Regulatory Transparency for New Medical Therapies Act (Pub. L. 114-89), which was signed into law on November 25, 2015, DEA is required to commence an expedited scheduling action with respect to certain new drugs approved by the FDA. As provided in 21 U.S.C. 811(j), this expedited scheduling is required where both of the following conditions apply: (1) The Secretary of HHS has advised DEA that a New Drug Application (NDA) has been submitted for a drug that has a stimulant, depressant, or hallucinogenic effect on the central nervous system, and that it appears that such drug has an abuse potential and (2) the Secretary recommends that DEA control the drug in schedule II, III, IV, or V pursuant to 21 U.S.C. 811(a) and (b). In these circumstances, DEA is required to issue an interim final rule controlling the drug within 90 days.

The law further states that the 90-day timeframe starts the later of (1) the date DEA receives the HHS scientific and medical evaluation/scheduling recommendation or (2) the date DEA receives notice of the NDA approval by HHS. In addition, the law specifies that the rulemaking shall become immediately effective as an interim final rule without requiring the DEA to demonstrate good cause therefor. Thus, the purpose of subsection (j) is to speed the process by which DEA schedules newly approved drugs that are currently either in schedule I or not controlled (but which have sufficient abuse potential to warrant control) so that such drugs may be marketed without undue delay following FDA approval.¹

Subsection (j) further provides that the interim final rule shall give interested persons the opportunity to comment and to request a hearing. After the conclusion of such proceedings, DEA must issue a final rule in accordance with the scheduling criteria of subsections 21 U.S.C. 811(b), (c), and (d) and 21 U.S.C. 812(b).

Background

Syndros is an oral solution that contains 5 mg of dronabinol (delta-9-THC) per mL of solution. Dronabinol is the generic name (International Nonproprietary Name, INN) for the (-) delta-9-trans isomer of tetrahydrocannabinol (THC), the primary psychoactive substance in marijuana. On June 1, 2015, Insys Therapeutics (Sponsor) submitted an NDA to the U.S. Food and Drug Administration (FDA) for Syndros, an oral formulation of dronabinol. The FDA accepted the NDA filing for Syndros on August 6, 2015 and approved the NDA on July 5, 2016. On December 28, 2016, the DEA received notification that HHS/FDA approved Syndros for the treatment of anorexia associated with weight loss in patients with Acquired Immune Deficiency Syndrome (AIDS), and for the treatment of nausea and vomiting resulting from cancer chemotherapy in patients who failed to respond to conventional antiemetic therapies.

Determination To Schedule FDA-Approved Products Containing Dronabinol in an Oral Solution

On December 28, 2016, the HHS provided the DEA with a scientific and medical evaluation and scheduling recommendation related to dronabinol. Because DEA's authority to issue this interim final rule under subsection 811(j) is limited to drugs that are the subject of an approved NDA, and because the NDA was limited to an oral solution containing dronabinol, DEA's discussion here of the scheduling criteria is likewise limited to oral solutions containing dronabinol in FDAapproved drug products.² HHS's scientific and medical evaluation contained an eight-factor analysis of the abuse potential of FDA-approved products of oral solutions containing dronabinol and recommended that such products be placed in schedule II of the CSA.

In response, the DEA reviewed the scientific and medical evaluation and scheduling recommendation provided by the HHS, along with all other relevant data, and completed its own eight-factor review document pursuant to 21 U.S.C. 811(c). The DEA concluded that FDA-approved dronabinol oral solutions met the 21 U.S.C. 812(b)(2) criteria for placement in schedule II of the CSA.

Pursuant to subsection 811(j), and based on the HHS recommendation, NDA approval by HHS/FDA, and DEA's determination, DEA is issuing this interim final rule to schedule FDAapproved dronabinol oral solution as a schedule II controlled substance under the CSA.

Included below is a brief summary of each factor as analyzed by the HHS and the DEA, and as considered by the DEA in its scheduling action. Please note that both the DEA and HHS analyses are available in their entirety under "Supporting Documents" in the public docket for this interim final rule at *http://www.regulations.gov*, under Docket Number "DEA-344." Full analysis of, and citations to, the information referenced in the summary may also be found in the supporting and related material.

1. Its Actual or Relative Potential for Abuse: Dronabinol is a generic name for the (-) delta-9-trans isomer of tetrahydrocannabinol (THC). THC is the primary psychoactive substance in marijuana. Dronabinol is the active pharmaceutical ingredient in Syndros. As stated by HHS, Marinol (synthetic dronabinol in sesame oil and encapsulated in a soft gelatin capsule) was approved by the FDA for medical use on May 31, 1985 and placed in schedule II based on its accepted medical use and high abuse potential. On July 2, 1999, Marinol was rescheduled from schedule II to schedule III because of the findings of the DEA that the difficulty of separating dronabinol from the sesame oil formulation and the delayed onset of behavioral effects due to oral route administration supported a lower abuse potential of Marinol as compared to substances in Schedule II. 64 FR 35928.

According to HHS, although Syndros oral solution and Marinol capsules have

¹ Given the parameters of subsection (j), in DEA's view, it would not apply to a reformulation of a drug containing a substance currently in schedules II through V for which an NDA has recently been approved.

² To the extent HHS's submissions to DEA are outside the scope of this interim final rule (*i.e.*, those addressing dronabinol beyond that contained

in an FDA-approved oral solution), they will not be addressed in this document.

the same pharmacology, these formulations differ in their physical and chemical properties. Both these formulations have abuse potential as demonstrated by their effects on subjective scores of "Drug Liking" in human abuse potential studies. HHS indicated that the formulation of Syndros (oral solution) is easier to abuse than Marinol because this liquid formulation can be manipulated to produce concentrated extracts of dronabinol for abuse by inhalation (smoking or vaping) or through other routes of administration. Because of the large amount of dronabinol in Syndros oral solution it has a greater potential for extraction than Marinol and thus has a greater abuse potential. Based on the data from in vitro studies conducted by the Sponsor, the large amount of dronabinol in the Syndros formulation, its pharmacokinetics upon oral administration, and its contribution to marijuana psychoactivity, HHS stated that the abuse potential of the dronabinol oral solution is similar to that of other THC containing products such as concentrates, infused edibles and drinks. Similar to these THC containing products, Syndros oral solution can be easily manipulated to other forms that can be easily abused through inhalation and oral routes of administration.

The 2014 and 2015 Monitoring the Future (MTF)³ survey indicated that THC containing products are being taken orally, smoked, and vaporized using devices such as e-cigarettes. There is a lack of evidence pertaining to diversion of Syndros or Marinol from legitimate drug channels. Syndros is not yet available on the market. Marinol and generic forms that reference it, have low levels of abuse and diversion according to the HHS and DEA, and this is attributed to the formulation of dronabinol in sesame oil.

2. Scientific Evidence of Its Pharmacological Effects, if Known: Dronabinol, also known as THC, is the primary psychoactive substance in marijuana and is also the active pharmaceutical ingredient in Syndros and Marinol. Dronabinol binds to and activates the cannabinoid receptors (CB1 and CB2). HHS states that CB1 receptors activation underlie the psychotropic effects and many other pharmacological effects of dronabinol. Some behavioral and other effects of dronabinol in humans consist of dizziness, nausea, tachycardia, euphoria, enhanced sensory perception, heightened imagination, impaired judgment, emotional lability, and increased appetite. Dronabinol has been reported to be self-administered intravenously by squirrel monkeys and intracerebroventricularly by rats. Discriminative stimulus effects of dronabinol are specific to CB1 cannabinoids, and unique because stimulants, hallucinogens, opioids, benzodiazepines, barbiturates, NMDA antagonists, and antipsychotics do not generalize to dronabinol.

3. The State of Current Scientific Knowledge Regarding the Drug or Other Substance: Dronabinol is the generic name for (-)delta-9-transtetrahydrocannabinol (THC) and is chemically known as (-)-(6aR-trans)-6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3pentyl-6H-dibenzo[*b*,*d*]pyran-1-ol and has the chemical formula C₂₁H₃₀O₂. At room temperature (25 °C), dronabinol is a light-yellow oil and hardens upon refrigeration (4 °C) and is insoluble in water. The FDA-approved Syndros formulation consists of 5 mg dronabinol/mL of a 50 percent w/w alcoholic solution. Syndros will be marketed as 30 mL aliquots in clear, amber glass bottles and each bottle will contain 150 mg dronabinol.

In vitro manipulation studies with Syndros and Marinol (positive control) were conducted by the Sponsor. It was found that Syndros oral solution and Marinol capsules differ in their physiochemical properties. Specifically, Syndros, unlike Marinol, can be manipulated such that the dronabinol can be evaporated into residues that can be reconstituted for smoking or abused intravenously. According to HHS, Syndros contains a large amount of dronabinol (150 mg of dronabinol in 30 mL of solution) and would be an easily accessible source for abuse via the oral route

4. Its History and Current Pattern of Abuse: There is a long history of abuse of THC in the United States. HHS noted that dronabinol in Marinol capsules is difficult to extract and therefore, cannot be used for smoking, vaping, or as an edible. The dronabinol in Syndros, however, is relatively easy to extract and concentrated forms can be used for smoking, vaping, or the sweetened alcoholic dronabinol in Syndros can be used as a substitute for THC in edibles. In the 2015 MTF survey, it was reported that teens were more likely to use ecigarettes (vaping) than regular cigarettes (smoking). In this survey, 6.1 percent of 12th graders reported vaporizing marijuana or hash oil in their last e-cigarette. Additionally, in a recent analysis of marijuana users, 12 percent of users preferred vaping the drug over any other method and considered it a safer alternative to smoking. As a result, these data suggest that if dronabinol extracts or concentrates are available from dronabinol sources such as Syndros, a certain percent of the population are likely to vape these substances.

5. The Scope, Duration, and Significance of Abuse: As noted by HHS, information on the scope, duration, and significance of abuse of dronabinol was considered for both oral and inhalation routes. Data analyzed from the 2014 Summer Styles Survey, a national representative consumer panel survey of adult marijuana users aged 18 or older, showed that the majority of current marijuana users prefer smoking marijuana. In the same survey, it was reported that 16 percent of the current users consumed THC containing edibles or drinks. Individuals who preferred vaping (using a device to vaporize liquid THC) believed that vaping is "healthier, better tasting" and resulted in "better effects" associated with marijuana and THC.

6. What, if any, Risk There is to the Public Health: As stated by HHS, labeling on the Marinol packaging indicates that Central Nervous System (CNS) adverse reactions are dose-related and subject to patient variability. CNS adverse reactions are more likely to occur at higher doses of dronabinol, Following oral Marinol (dronabinol) doses of 0.4 mg/kg, CNS symptoms such as amnesia, confusion, delusions, depression, and hallucinations have been observed. According to HHS, it is assumed that Syndros oral solution will have similar adverse effects to Marinol. One concern with Syndros is that there is a large amount of dronabinol present in the product (150 mg dronabinol per bottle, 30 mL solution) that can easily be abused orally and may result in unintended overdoses.

Oral consumption of dronabinol, compared to inhaled THC, may result in psychoactive effects that are delayed and stronger with an increased risk of experiencing serious adverse events. When dronabinol (THC) is smoked, the drug rapidly reaches the brain and psychoactive effects are felt within minutes of inhalation, which allows the subject to control the dose more readily. Due to the absorption and metabolism by the liver following oral ingestion of dronabinol, it takes longer for an individual to feel the psychoactive effects. Therefore, the individual may underestimate the ingestion amount needed to feel the psychoactive effects

³ MTF is a research program conducted at the University of Michigan's Institute for Social Research, under grants from NIDA. MTF tracks drug use trends among American adolescents in the 8th, 10th, and 12th grades and high school graduates into adulthood by conducting national surveys.

which may potentially result in an overdose.

7. Its Psychic or Physiological Dependence Liability: As stated in labeling for Marinol and Syndros, psychological and physical dependence has been observed in healthy individuals following use of dronabinol. Abrupt discontinuation of dronabinol in individuals receiving 210 mg/day (25 times the recommended daily dose for the treatment of anorexia associated with weight loss in AIDS patients) for 12 to 16 days resulted in undesirable symptoms including insomnia, irritability, and restlessness at 12 hours after discontinuation. These symptoms worsened to include hot flashes, anorexia, sweating, rhinorrhea, loose stools, and hiccoughs at 24 hours after discontinuation of dronabinol.

8. Whether the Substance is an Immediate Precursor of a Substance Already Controlled under the CSA: Dronabinol oral solution is not an immediate precursor of any controlled substance.

Conclusion: After considering the scientific and medical evaluation conducted by the HHS, the HHS' recommendation, and its own eight-factor analysis, the DEA has determined that these facts and all relevant data constitute substantial evidence of a potential for abuse of dronabinol oral solution. As such, the DEA hereby schedules FDA-approved products containing dronabinol oral solution as controlled substances under the CSA.

Determination of Appropriate Schedule

The CSA lists the findings required to place a drug or other substance in any particular Schedule (I, II, III, IV, or V). 21 U.S.C. 812(b). After consideration of the analysis and recommendation of the Assistant Secretary for Health of the HHS and review of all available data, the Acting Administrator of the DEA, pursuant to 21 U.S.C. 812(b)(2), finds that:

1. FDA-approved products containing dronabinol in an oral solution have a high potential for abuse. The physicochemical properties of Syndros allow extraction of dronabinol for abuse through oral or inhalation (smoking or vaping) routes. Dronabinol is not easily extractable from Marinol. Oral abuse of dronabinol-containing products is associated with hallucinations, mood alterations, and paranoia. The 2015 MTF Survey reported that 6.1 percent of the 12th graders used e-cigarettes to vaporize marijuana or cannabinoid substances. Similarly, the 2014 Summer Styles Survey, 16 percent of current marijuana users indicated that they have consumed dronabinol containing

edibles or drinks. These data collectively indicate FDA-approved oral solutions containing dronabinol have high potential for abuse.

2. FDA-approved products containing dronabinol in an oral solution have a currently accepted medical use in treatment in the United States. The FDA approved an oral solution containing dronabinol (Syndros) for the treatment of anorexia associated with weight loss in patients with AIDS, and for the treatment of nausea and vomiting associated with cancer chemotherapy in patients who have failed to respond adequately to conventional antiemetic treatments.

3. FDA-approved products containing dronabinol in an oral solution may lead to severe physical dependence. Following discontinuation of dronabinol at a dose 210 mg/day (25 times higher than the recommended daily dose for anorexia associated with weight loss in AIDS patients) for 12 to 16 consecutive days, withdrawal symptoms including irritability, insomnia, and restlessness were observed at 12 hours after discontinuation. These withdrawal symptoms worsened to include hot flashes, sweating, rhinorrhea, loose stools, hiccoughs, and anorexia at 24 hours after discontinuation of dronabinol. The withdrawal symptoms decreased gradually over the next 48 hours and patients reported having disturbed sleep for several weeks after discontinuation of dronabinol.

Based on these findings, the Acting Administrator of the DEA concludes that FDA-approved products containing dronabinol [(-)-delta-9-trans tetrahydrocannabinol (delta-9-THC)] in an oral solution warrant control in schedule II of the CSA. 21 U.S.C. 812(b)(2).

Requirements for Handling FDA-Approved Products Containing Dronabinol in an Oral Solution.

Preliminarily, it should be noted that any form of dronabinol other than in an FDA-approved drug product remains a schedule I controlled substance, and those who handle such material remain subject to the regulatory controls, and administrative, civil, and criminal sanctions, applicable to schedule I controlled substances set forth in the CSA and DEA regulations. However, for those who handle dronabinol oral solution exclusively in the form of an FDA-approved drug product, the following is a summary of the schedule II regulatory requirements that apply as a result of this interim final rule:

1. *Registration*. Any person who handles (manufactures, distributes,

reverse distributes, dispenses, imports, exports, engages in research, or conducts instructional activities or chemical analysis with, or possesses) FDA-approved products containing dronabinol in an oral solution, or who desires to handle such products, must be registered with the DEA to conduct such activities pursuant to 21 U.S.C. 822, 823, 957, and 958 and in accordance with 21 CFR parts 1301 and 1312. Any person who currently handles FDA-approved products containing dronabinol in an oral solution, and is not registered with the DEA, must submit an application for registration and may not continue to handle such products, unless the DEA has approved that application for registration, pursuant to 21 U.S.C. 822, 823, 957, and 958, and in accordance with 21 CFR parts 1301 and 1312.

2. *Quota.* Only registered manufacturers are permitted to manufacture FDA-approved products containing dronabinol in an oral solution in accordance with a quota assigned pursuant to 21 U.S.C. 826 and in accordance with 21 CFR part 1303.

3. Disposal of stocks. Upon obtaining a schedule II registration to handle FDAapproved products containing dronabinol in an oral solution, any person who does not desire or is not able to maintain such registration must surrender all quantities of such products, or may transfer all quantities of such products to a person registered with the DEA in accordance with 21 CFR part 1317, in addition to all other applicable federal, state, local, and tribal laws.

4. Security. FDA-approved products containing dronabinol in an oral solution are subject to schedule II security requirements and must be handled and stored pursuant to 21 U.S.C. 821, 823, and in accordance with 21 CFR 1301.71–1301.93.

5. Labeling and Packaging. All labels, labeling, and packaging for commercial containers of FDA-approved products containing dronabinol in an oral solution must comply with 21 U.S.C. 825 and 958(e), and be in accordance with 21 CFR part 1302.

6. Inventory. Every DEA registrant who possesses any quantity of FDAapproved products containing dronabinol in an oral solution must take an inventory of such products on hand, pursuant to 21 U.S.C. 827 and 958, and in accordance with 21 CFR 1304.03, 1304.04, and 1304.11.

Any person who becomes registered with the DEA to handle FDA-approved products containing dronabinol in an oral solution must take an initial inventory of all stocks of controlled substances (including FDA-approved products containing dronabinol in an oral solution) on hand on the date the registrant first engages in the handling of controlled substances, pursuant to 21 U.S.C. 827 and 958, and in accordance with 21 CFR 1304.03, 1304.04, and 1304.11.

After the initial inventory, every DEA registrant must take a new inventory of all stocks of controlled substances (including FDA-approved products containing dronabinol in an oral solution) on hand every two years, pursuant to 21 U.S.C. 827 and 958, and in accordance with 21 CFR 1304.03, 1304.04, and 1304.11.

7. *Records and Reports.* Every DEA registrant must maintain records and submit reports for FDA-approved products containing dronabinol in an oral solution, pursuant to 21 U.S.C. 827 and 958(e), and in accordance with 21 CFR parts 1304, 1312, and 1317.

8. Orders for FDA-approved products containing dronabinol in an oral solution. Every DEA registrant who distributes FDA-approved products containing dronabinol in an oral solution is required to comply with order form requirements, pursuant to 21 U.S.C. 828, and in accordance with 21 CFR part 1305.

9. *Prescriptions*. All prescriptions for FDA-approved products containing dronabinol in an oral solution must comply with 21 U.S.C. 829, and be issued in accordance with 21 CFR parts 1306 and 1311, subpart C.

10. Manufacturing and Distributing. In addition to the general requirements of the CSA and DEA regulations that are applicable to manufacturers and distributors of schedule II controlled substances, such registrants should be advised that (consistent with the foregoing considerations) any manufacturing or distribution of FDAapproved products containing dronabinol in an oral solution may only be for the legitimate purposes authorized by the FDCA and CSA.

11. Importation and Exportation. All importation and exportation of FDAapproved products containing dronabinol in an oral solution must be in compliance with 21 U.S.C. 952, 953, 957, and 958, and in accordance with 21 CFR part 1312.

12. *Liability*. Any activity involving FDA-approved products containing dronabinol in an oral solution not authorized by, or in violation of, the CSA or its implementing regulations, is unlawful, and may subject the person to administrative, civil, and/or criminal sanctions.

Regulatory Analyses

Administrative Procedure Act

As explained above, under 21 U.S.C. 811(j), where a new drug is (1) approved by the Department of Health and Human Services (HHS) and (2) HHS recommends control in CSA schedule II–V, the DEA is required to issue an interim final rule scheduling the drug within 90 days. Additionally, the law specifies that the rulemaking shall become immediately effective as an interim final rule without requiring the DEA to demonstrate good cause. Therefore, the standard notice-andcomment requirements of section 553 of the APA, 5 U.S.C. 553, do not apply to this scheduling action.

Executive Orders 12866, Regulatory Planning and Review, and 13563, Improving Regulation and Regulatory Review

In accordance with 21 U.S.C. 811(j), this scheduling action is subject to formal rulemaking procedures performed "on the record after opportunity for a hearing," which are conducted pursuant to the provisions of 5 U.S.C. 556 and 557. The CSA sets forth the procedures and criteria for scheduling a drug or other substance. Such actions are exempt from review by the Office of Management and Budget (OMB) pursuant to section 3(d)(1) of Executive Order 12866 and the principles reaffirmed in Executive Order 13563.

Executive Order 12988, Civil Justice Reform

This regulation meets the applicable standards set forth in sections 3(a) and 3(b)(2) of Executive Order 12988 to eliminate drafting errors and ambiguity, minimize litigation, provide a clear legal standard for affected conduct, and promote simplification and burden reduction.

Executive Order 13132, Federalism

This rulemaking does not have federalism implications warranting the application of Executive Order 13132. The rule does not have substantial direct effects on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

Executive Order 13175, Consultation and Coordination With Indian Tribal Governments

This rule does not have tribal implications warranting the application of Executive Order 13175. It does not have substantial direct effects on one or more Indian tribes, on the relationship between the Federal government and Indian tribes, or on the distribution of power and responsibilities between the Federal government and Indian tribes.

Regulatory Flexibility Act

In accordance with 5 U.S.C. 603(a), ''[w]henever an agency is required by [5 U.S.C. 553], or any other law, to publish general notice of proposed rulemaking for any proposed rule, or publishes a notice of proposed rulemaking for an interpretive rule involving the internal revenue laws of the United States, the agency shall prepare and make available for public comment an initial regulatory flexibility analysis." As noted in the above discussion regarding applicability of the Administrative Procedure Act, the notice-and-comment requirements of section 553 of the APA, 5 U.S.C. 553, do not apply to this scheduling action. Consequently, the RFA does not apply to this interim final rule.

Unfunded Mandates Reform Act of 1995

In accordance with the Unfunded Mandates Reform Act (UMRA) of 1995, 2 U.S.C. 1501 *et seq.*, the DEA has determined that this action would not result in any Federal mandate that may result "in the expenditure by State, local, and tribal governments, in the aggregate, or by the private sector, of \$100,000,000 or more (adjusted for inflation) in any one year." Therefore, neither a Small Government Agency Plan nor any other action is required under UMRA of 1995.

Paperwork Reduction Act of 1995

This action does not impose a new collection of information requirement under the Paperwork Reduction Act of 1995. 44 U.S.C. 3501–3521. This action would not impose recordkeeping or reporting requirements on State or local governments, individuals, businesses, or organizations. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Congressional Review Act

This rule is not a major rule as defined by section 804 of the Small Business Regulatory Enforcement Fairness Act of 1996 (Congressional Review Act (CRA)). This rule will not result in: an annual effect on the economy of \$100,000,000 or more; a major increase in costs or prices for consumers, individual industries, Federal, State, or local government agencies, or geographic regions; or significant adverse effects on

competition, employment, investment, productivity, innovation, or on the ability of U.S.-based companies to compete with foreign based companies in domestic and export markets. However, pursuant to the CRA, the DEA has submitted a copy of this interim final rule to both Houses of Congress and to the Comptroller General.

List of Subjects in 21 CFR Part 1308

Administrative practice and procedure, Drug traffic control,

Reporting and recordkeeping requirements.

For the reasons set out above, the DEA amends 21 CFR part 1308 as follows:

PART 1308—SCHEDULES OF CONTROLLED SUBSTANCES

■ 1. The authority citation for 21 CFR part 1308 continues to read as follows:

Authority: 21 U.S.C. 811, 812, 871(b), unless otherwise noted.

■ 2. In § 1308.12, add paragraph (f)(2) to read as follows:

§1308.12 Schedule II.

(f) * * *

(2) Dronabinol [(-)-delta-9-trans tetrahydrocannabinol] in an oral solution in a drug product approved for marketing by the U.S. Food and Drug Administration

* * *

Dated: March 20, 2017.

Chuck Rosenberg, Acting Administrator. [FR Doc. 2017-05809 Filed 3-22-17; 8:45 am] BILLING CODE 4410-09-P

DEPARTMENT OF HOMELAND SECURITY

Coast Guard

33 CFR Part 117

[Docket No. USCG-2017-0100]

Drawbridge Operation Regulation: Des Allemands Bayou, Des Allemands, LA

AGENCY: Coast Guard, DHS. **ACTION:** Notice of deviation from drawbridge regulation.

SUMMARY: The Coast Guard has issued a temporary deviation from the operating schedule that governs the Burlington Northern Santa Fe Railroad swing span drawbridge across Des Allemands Bayou, mile 14.0, at Des Allemands, St. Charles and Lafourche Parishes, Louisiana. The deviation is necessary to install two open-deck spans for increased reliability of bridge operations. This deviation allows the bridge to remain in the closed-tonavigation position for two (2) separate, two-day periods.

DATES: This deviation is effective from 6 a.m. on April 20, 2017 through 12 noon on April 28, 2017.

ADDRESSES: The docket for this deviation, [USCG-2017-0100] is available at http://www.regulations.gov. Type the docket number in the

"ŠĒARCH" box and click "SEARCH". Click on Open Docket Folder on the line associated with this deviation.

FOR FURTHER INFORMATION CONTACT: If you have questions on this temporary deviation, call or email Giselle

MacDonald, Bridge Management Specialist, Coast Guard; telephone 504-671–2128, email Giselle.T.MacDonald@ uscg.mil.

SUPPLEMENTARY INFORMATION: The Burlington Northern Santa Fe Railroad Company requested a temporary deviation from the operating schedule for the swing span drawbridge across Des Allemands Bayou, mile 14.0, at Des Allemands, St. Charles and Lafourche Parishes, Louisiana. The deviation was requested to install two open-deck spans, one on each side of the existing swing span, to increase the reliability of bridge opening and closing operations.

The draw currently operates under 33 CFR 117.440(b). The draw of the Burlington Northern Santa Fe Railroad Bridge, Mile 14.0, shall open on signal Monday through Friday from 7 a.m. to 3 p.m. At all other times the draw shall open on signal if at least 4 hours notice is given.

For purposes of this deviation, the bridge will remain closed to navigation for two separate dates, 30 hours each, from 6 a.m. April 20, 2017 through 12 noon, April 21, 2017 and from 6 a.m., April 27, 2017 through 12 noon, April 28, 2017. During this deviation, vessels will not be allowed to pass through the bridge. The bridge has a vertical clearance of 3 feet above mean high water in the closed-to-navigation position and unlimited in the open-tonavigation position. Navigation on the waterway consists of tugs with tows, fishing vessels and recreational craft.

The Coast Guard will inform the users of the waterway through our Local and Broadcast Notices to Mariners of the change in operating schedule for the bridge. The bridge will not be able to open for emergencies and there is no immediate alternate route for vessels to pass.

In accordance with 33 CFR 117.35(e), the drawbridge must return to its regular operating schedule immediately at the

end of the effective period of this temporary deviation. This deviation from the operating regulations is authorized under 33 CFR 117.35.

(7365)

Dated: March 17, 2017.

Eric A. Washburn,

Bridge Administrator, Eighth Coast Guard District.

[FR Doc. 2017-05810 Filed 3-22-17; 8:45 am] BILLING CODE 9110-04-P

DEPARTMENT OF VETERANS AFFAIRS

38 CFR Part 17

RIN 2900-AP73

Release of VA Records Relating to HIV

AGENCY: Department of Veterans Affairs. **ACTION:** Final rule.

SUMMARY: The Department of Veterans Affairs (VA) is amending its medical regulations governing the release of VA medical records. Specifically, VA is eliminating the restriction on sharing a negative test result for the human immunodeficiency virus (HIV) with veterans' outside providers. HIV testing is a common practice today in healthcare and the stigma of testing that may have been seen in the 1980s when HIV was first discovered is no longer prevalent. Continuing to protect negative HIV tests causes delays and an unnecessary burden on veterans when VA tries to share electronic medical information with the veterans' outside providers through electronic health information exchanges. For this same reason, VA will also eliminate restrictions on negative test results of sickle cell anemia. This final rule eliminates the current barriers to electronic medical information exchange.

DATES: This final rule is effective April 24, 2017.

South Carolina Board of Health and Environmental Control Final Review Conference April 5, 2017

Final Review Conference Docket No. 17-RFR-12, Keenan Oil Co.

Requests for Final Review were filed on February 8, 2017.

<u>Parties and Counsel of Record</u> Keenan Energy Group f/k/a Keenan Oil Co. represented by W. Thomas Lavender with Nexsen Pruet South Carolina Department of Health and Environmental Control Represented by Sara P. Bazemore, SCDHEC Office of General Counsel

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January 24, 2017

Keenan Oil Co., Inc. PO Box 3218 Columbia, SC 29230-3218

Re: Underground Storage Tank (UST) Permit – 07705 Green Electric Co., 2248 Sumter St., Columbia, SC Report received – December 2, 2016

Dear Sir or Madam:

An assessment report received by the UST Management Division on December 2, 2016, indicates that groundwater collected from a temporary monitoring well at this location is contaminated with petroleum constituents. A file review Indicates Keenan Oil Co., Inc. as the tank owner at the time of tank removal and therefore, the responsible party for the petroleum contamination documented in the Phase II assessment. The State Underground Petroleum Environmental Response Bank (SUPERB) Account provides financial assistance for the cleanup of a site contaminated by a release from a regulated UST system provided that the facility associated with the release meets certain eligibility criteria. The Division has determined that this release is eligible for cleanup using SUPERB funds. The responsible party must satisfy a \$25,000.00 deductible prior to the Division using SUPERB funds.

The SUPERB Act Section 44-2-130(E)(1) states: "An owner or operator of an underground storage tank or his agent seeking to qualify for compensation from the Superb Account for site rehabilitation shall submit a written application to the department." For your convenience, a SUPERB Account Application/Statement of Insurance form is enclosed. Please complete and return the attached form. You must request access to the SUPERB Account in order for the Division to complete the SUPERB qualification process.

South Carolina UST Control Regulation 61-92, Section 280.93(a) and 280.113 of the South Carolina Underground Storage Tank Control Regulations requires that tank owners submit and maintain proof of financial responsibility (FR) until subsequent corrective action is complete.

Should you have any questions pertaining to this matter, please contact me at (803) 898-0647.

Respectfully,

Denise M. Place Regulatory Compliance Section UST Management Division Bureau of Land and Waste Management

Enclosure

S.C. Department of Health and Environmental Control 2600 Bull Street, Columbia, SC 29201 (803) 898-3432 www.scdhec.gov

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FEB 08 2017

Clerk, Board of Health and Environmental Control

17-RFR-12

W. Thomas Lavender, Jr. Member Admitted in SC

February 8, 2017

HAND DELIVERY

Ms. Lisa Lucas Longshore, Clerk South Carolina Board of Health and Environmental Control 2600 Bull Street Columbia, South Carolina 29201

> Re: Keenan Energy Company f/k/a Keenan Oil Co., Inc. Underground Storage Tank (UST) Permit – 07705 Green Electric Co., 2248 Sumter St., Columbia, SC

Dear Ms. Longshore:

Charleston We represent Keenan Energy Company f/k/a Keenan Oil Co., Inc. ("Keenan") in the above-referenced matter.

ColumbiaOn November 7, 2008, this Board issued a Final Agency Decision in In Re: Keenan
Oil Company, Board Docket No. 08-RFR-109 ("2008 Decision"). Attached as
Appendix A is a copy of the 2008 Decision. In the 2008 Decision, the Board held
that USTs which were removed prior to December 24, 1988, and reported to DHEC
in a March 14, 1989 site report ("1989 Site Report") where not subject to a \$25,000
deductible. Attached as Appendix B is a copy of the 1989 Site Report.

By letter dated January 24, 2017, the Bureau of Land and Waste Management ("Bureau") notified Keenan that its was responsible for a \$25,000 deductible for a release from a UST removed prior to December 24, 1988 from the former Green Electric Co., 2248 Sumter St., Columbia, SC ("Green Electric Site") and reported to DHEC in the very same March 14, 1989 report referenced above. A copy of the January 24, 2017 letter to Keenan ("Staff Determination") is attached as **Appendix C**.

Keenan asserts that the Staff Determination is in <u>direct conflict</u> with the Board's decision in the 2008 Decision. Pursuant to S.C. CODE ANN. § 44-1-60, Keenan requests the DHEC Board's final review of the Staff Determination that cleanup of the Green Electric Site is subject to a \$25,000 deductible prior to cleanup using

1230 Main Street Suite 700 (29201) PO BOX 2426 Columbia, SC 29202 www.nexsenpruet.com

Raleigh

T 803.253.8233 F 803.727.1454 E TLavender@nexsenpruet.com Nexsen Pruet, LLC Attorneys and Counselors at Law

SCBHEC FRC 17-RFR-12 Keenan Oil 3 of 119

Ms. Lisa Lucas Longshore February 8, 2017 Page 2

SUPERB funds. Keenan requests that the Board conduct a final review of the Staff Determination and find that the Green Electric Site is subject to a <u>zero deductible</u> prior to cleanup using SUPERB funds. Our firm's check in the amount of \$100 for the filing fee is enclosed.

While Keenan would assert that the reasons set forth above are sufficient for the Board to grant the request and reverse the Staff Determination, additional background is provided. SUPERB was originally enacted in 1988. (1988 S.C. Act No. 486). Prior to December 24, 1988, Keenan closed and removed the UST at the Green Electric Site in accordance with the 1988 statute and the applicable regulations. On March 14, 1989, Keenan provided the Department with a report on the closure and removal of a number of USTs, including the UST at the Green Electric Site. Section 44-2-110 of the 1988 Act, the statute in effect at the time of Keenan's removal of the UST, created an early detection incentive program ("amnesty"), which made "[a]ll sites involving releases from underground storage tanks reported to the department any time from midnight on December 31, 1987, to midnight on December 31, 1989 . . . qualified sites for the expenditure of funds from the SUPERB Account, provided that a written report is filed with respect thereto." (1988 S.C. Act No. 486). In other words, as long as the site was reported to the Department during the grace period, the site qualified for SUPERB funds regardless of when the release occurred. Under the original Section 44-2-130(A), a party reporting the site during the grace period was "eligible to directly bill or be reimbursed for all reasonable costs incurred in connection with site rehabilitation" up to one million dollars and was not responsible for any deductible. (1988 S.C. Act No. 486) (emphasis added). The 1990 amendment to Section 44-2-130(A) further emphasized that all reasonable costs could be recovered "[f]or sites reported during the grace period established under the early detection incentive program." (1990 S.C. Act no. 473). Since Keenan removed the UST at the Green Electric Site and reported the site during the grace period, Keenan is not responsible for any deductible associated with a release form the former UST, regardless of when that release was discovered.

Additionally, Keenan removed the UST at the Green Electric Site and made the required reporting to the Department in accordance with the regulations in effect at the time of the removal. On May 22, 1985, the South Carolina Underground Storage Tank Control Regulations were promulgated. These regulations were not updated until March 23, 1990, more than a year after Keenan's removal of the UST. Therefore, the 1985 regulations are the applicable regulations for the removal of the UST at the Green Electric Site. These 1985 regulations outlined the process of abandoning a UST by removing it from the ground in R.61-92.12.B and specified that the owner of any abandoned UST must notify the Department in accordance with the annual reporting requirements detailed in Section R.61-92.7.H. Under the 1985 South Carolina Underground Storage Tank Control Regulations, no further reporting or testing was necessary. The 1989 Site Report satisfied the reporting requirement of

Ms. Lisa Lucas Longshore February 8, 2017 Page 3

R.61-92 concerning the UST removal to the Department during the grace period as affirmed by the 2008 Decision.

Although a 1995 amendment later shifted the focus from the reporting of the site to the reporting of the release, this amendment did not exist at the time Keenan acted in reliance upon the then current statute and closed the UST by removal. Under the law existing at the time of removal, Keenan, having reported the site to the Department, qualified to receive SUPERB funds to cover all reasonable costs incurred in connection with site rehabilitation, regardless of when the release occurred, and was not responsible for any deductible before receiving SUPERB funds. Having proactively removed the UST in 1988 in reliance upon the law then existing, Keenan is not responsible for a \$25,000 deductible based on an amendment to statute that was made almost a year after the UST was removed.

Keenan asserts that the Bureau is bound by the 2008 Decision relying upon the identical factual basis. We appreciate the Board's consideration of this request for final review. If additional information or documentation is needed, please do not hesitate to contact me.

Sincerely, W. Thomas Lavender, Jr.

Enclosures cc: Keenan Energy Company

Appendix A

SOUTH CAROLINA BOARD OF HEALTH AND ENVIRONMENTAL CONTROL

FINAL AGENCY DECISION

In Re: Keenan Oil Company

Board Docket No. 08-RFR-109

Appearances: W. Tommy Lavender, Jr., Esquire for Keenan Oil Company, Inc, Requestor

Stephen P. Hightower, Esquire, for South Carolina Department of Health and Environmental Control

This matter comes before the South Carolina Board of Health and Environmental Control (Board) for final review pursuant to S.C. Code Ann. § 44-1-60. On August 27, 2008, Department staff issued letter determining that the Requestor was required to satisfy the twenty-five thousand dollar (\$25,000.00) deductible for the petroleum release on property owned by Carolina Tractor and Equipment site located at 7011 Garners Ferry Road, Columbia, South Carolina (the "Site"). The Requestor filed a timely request for a final review conference and the conference was held on October 9, 2008.

Under the information presented at the conference, the Board has determined that the Requestor is not be required to pay the twenty-five thousand dollar (\$25,000) deductible for this release. Accordingly, the Department staff decision of August 27, 2008 is reversed.

Paul C. Aughtry, AI Chairman Board of Health and Environmental Control For the Board

November 7, 2008

SCBHEC FRC 17-RFR-12 Keenan Oil 7 of 119

Notice of Right to Request Contested Case Hearing Before Administrative Law Court

S.C. Code §44-1-60(F)(2) provides that within thirty days after the receipt of the Board's written final agency decision an applicant, permittee, licensee, or affected person desiring to contest the final agency decision may request a contested case hearing before the Administrative Law Court, in accordance with the Administrative Procedures Act. A request for a contested case hearing before the Administrative Law Court (ALC) must be filed in accordance with the Rules of the ALC, including payment of the ALC's filing fee, at the following address:

Clerk's Office South Carolina Administrative Law Court Edgar A. Brown Building 1205 Pendleton St., Suite 224 Columbia, SC 29201

The ALC's Notice of Request for Contested Case Hearing form and the Rules of the ALC can be found at the ALC's website: http://www.scalc.net. If a party files a request for a contested case hearing with the ALC, the party must serve a copy of the request on DHEC and any other parties at the same time the request is filed with the ALC. A copy of the request for a contested case hearing must be delivered or mailed to DHEC at the following address:

Lisa L. Longshore Clerk of the Board SC DHEC 2600 Bull Street Columbia, SC 29201

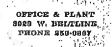
The above information on filing a request for a contested case hearing before the Administrative Law Court is provided as a courtesy; parties before the ALC are responsible for complying with all applicable requirements of the Court.

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Appendix B



KEENAN OIL COMPANY, INC. F. O. BOX 4218 COLUMBIA, S. C. 29230



S.C. Department of Health and Environmental Control Bureau of Finance 2600 Bull Street Columbia, S.C. 29201

March 14, 1989 🔤

Re: Annual Registration Fee for UST

Per the South Carolina Underground Storage Tank Control regulations R.61-92-7, please receive the below list as notification of tanks no longer in operation. In each case the tanks have been removed and disposed of or have been scheduled for removal prior to December 24, 1988. In only one case the equipment has remained in the ground per the request of property owner.

	Permit ID	Invoice Number	Total Fees
	N-32-NO-06025 New South Supply	Q103210-2	60.00
	N-32-NO-06015 New South Supply	QI03209-4	60.00
Ì	N-40-NO-09834 South Carolina Tractor	QI03222-7	60.00
	N-40-NO-07927 South Carolina Tractor	QI03221~9	120.00
	N-40-NO-07691 Walker Plumbing Co. (550 gal.	QI03230-0 tank filled with sand)	60.00
	N-40-NO-07850 Smith Grading & Paving	QI03219-3	60.00
	N-40-NO-07930 Robinson Holding Co.	QI03213~6	120.00
	N-32-NO-06114 Bryant Heating Co.	QI03179-9	60.00
	N-40-NO-07893 Fast Fare #821	QI03049-4	120.00
	N-40-NO-07705 Green Electric	QI03196-3	60.00
	N-40-NO-07925 Sox & Freeman	Q103223-5	120.00
	N-40-NO-07693 Capital City Dodge	QI03181-5	60.00
	N-40-NO-09908	QI03242-5	60.00

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	9 - 9 - 90 - 198	*	2 10 10 10 10 10 10 10 10 10 10 10 10 10
	Capital City Dodge		, ju
	N-40-NO-07873 Hewitt Robins Company	QI03197-1	. 60.00 ¹
•	N-40-NO-07707 Kaminer Heating Co.	QI03203-7	60.00
	N-32-NO-06136 John E. Fitts	QI03201-1	60.00
	N-40-NO-07901 W.F. Ballentine	QI03228-4	60.00
	N-40-NO-07690 Westside Ice & Fuel Co.	QI03232-6	60.00
	N-40-NO-07877 ⁽ Industrial Alignment	QI03199-7	60.00
	N-40-NO-07810 Pulliam Motor Co.	QI03212-8	120.00
	N-40-NO-07695 Şam Jones 66	QI03214-4	180.00
	N-40-NO-07855 Goodlett Equipment Co. Inc.	QI03195-5	60.00
	N-40-NO-07854 Alexander, Taylor & Murphy	QI03173-2	60.00
	N-40-NO-07899 Air Products & Chemical	QI03172-4	60.00
	N-32-NO-06115 Blanchard Machinery Co.	QI03176-5	180.00
	N-40-NO-07904 Brawley's Service Station	QI03178-1	180.00
	N-40-NO-07699 Campbell's 66	QI03180-7	360.00
	N-40-N0-07931 E.D. Sauls	QI03187-2	60.00
	N-40-NO-07903 Cricket Bait Shop	QI03186-4	120.00
	N-40-NO-07928 SCE&G	QI03217-7	60.00
	N-32-NO-06118	QI03225-0	360.00

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N-40-NO-07883 Keenan Oll Co.	QI03204-5	120.00	a Q
N-40-NO-07708 Palmetto Wholesale Co.	QI03211-0	60.00	
N-40-NO-07882 Columbia Crawler Corp.	QI03184-9	180.00)
N-40-NO-07706 Jones Garbage Service	QI03202-9	60.00	· · ·
Kline Iron and Steel		***	· ·
Listed below are tanks billed	in error:	.20	
N-40-NO-07766 McCrory Const. Co. (Keenan Oi	QI03208-6 l does not own any tanks at this	120.00 location}	, ⁸
N-40-NO-07900 B&W Lumber Co. (Tank is owned	QI03174-0 by B&W and DHEC has billed them	60.00	
N-40-NO-07692 Spring Valley Country Club (QI03224-3 This is a heating Oil tank)	60.00	2
Listed below are tanks once o bill of sales is attached):	wned by Keenan Oil but have been	sold (a copy	of
N-32-NO-06117 E.F. Aughtry 66	QI03188-0	120.00	
N-40-NO-07096 Bert A. Brantley	QI03175-7	60,00	
N-40-NO-07876 Lumber Builder & Supply	QI03206-0	60.00	
N-40-NO-07898 William Boyles	QI03233-4	120.00	27.
N-32-NO-06123 Wilson Construction Co.	QI03234-2	60.00	14

Please remove all the above equipment from the annual registration fee charge for reasons so outlined.

If there are any questions please don't hesitate calling.

Sincerely;

William J. Keenan, II.

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SCBHEC FRC 17-RFR-12 Keenan Oil 12 of 119

Appendix C

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January 24, 2017

Keenan Oil Co., Inc. PO Box 3218 Columbia, SC 29230-3218

Re: Underground Storage Tank (UST) Permit – 07705 Green Electric Co., 2248 Sumter St., Columbia, SC Report received – December 2, 2016

Dear Sir or Madam:

An assessment report received by the UST Management Division on December 2, 2016, indicates that groundwater collected from a temporary monitoring well at this location is contaminated with petroleum constituents. A file review indicates Keenan Oil Co., Inc. as the tank owner at the time of tank removal and therefore, the responsible party for the petroleum contamination documented in the Phase II assessment. The State Underground Petroleum Environmental Response Bank (SUPERB) Account provides financial assistance for the cleanup of a site contaminated by a release from a regulated UST system provided that the facility associated with the release meets certain eligibility criteria. The Division has determined that this release is eligible for cleanup using SUPERB funds. The responsible party must satisfy a \$25,000.00 deductible prior to the Division using SUPERB funds.

The SUPERB Act Section 44-2-130(E)(1) states: "An owner or operator of an underground storage tank or his agent seeking to qualify for compensation from the Superb Account for site rehabilitation shall submit a written application to the department." For your convenience, a SUPERB Account Application/Statement of Insurance form is enclosed. Please complete and return the attached form. You must request access to the SUPERB Account in order for the Division to complete the SUPERB qualification process.

South Carolina UST Control Regulation 61-92, Section 280.93(a) and 280.113 of the South Carolina Underground Storage Tank Control Regulations requires that tank owners submit and maintain proof of financial responsibility (FR) until subsequent corrective action is complete.

Should you have any questions pertaining to this matter, please contact me at (803) 898-0647.

Respectfully,

Denise m. Placo

Denise M. Place Regulatory Compliance Section UST Management Division Bureau of Land and Waste Management

Enclosure

S.C. Department of Health and Environmental Control 2600 Bull Street, Columbia, SC 2920} (803) 898-3432 www.scdhec.gov

N dhec	Superb Account Application Ust Management Division	
ursuant to the State Underground Petroleum Env operator of an underground storage tank or his a r site rehabilitation shall submit a written applicati	agent seeking to quality for compensation	44-2-130(E)(1): "An owner
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BEFORE THE SOUTH CAROLINA BOARD OF HEALTH AND ENVIRONMENTAL CONTROL

STAFF RESPONSE TO REQUEST FOR FINAL REVIEW Docket No. 17-RFR-12

Requestor/Permittee: Keenan Energy Group, f/k/a Keenan Oil Co., UST Site ID #07705 (Green Electric Co., 2248 Sumter Street, Columbia, SC)

RE: Requirement of Payment of deductible before access to SUPERB funds.

I. SUMMARY

a) Type of Decision

This request for review challenges a January 24, 2017 decision by DHEC's Bureau of Land and Waste Management, Underground Storage Tank Management Division (Division or DHEC or Department) that Keenan Oil Co., Inc. must satisfy a deductible prior to using SUPERB funds.

Department records indicate that Keenan Oil Co., Inc. (Keenan Oil) was the owner of and removed one 1,000 gallon gasoline underground storage tank (UST) from the Green Electric Co. Site (Site) on or before December 24, 1988. Keenan Oil submitted a letter to the Department, dated March 14, 1989 (1989 Tank Fee Notification). Keenan Oil did not report any releases in its 1989 Tank Fee Notification. The notification from Keenan Oil listed several sites, including the Green Electric Site, with tanks no longer in operation. Division files do not indicate that a release was reported at the time the referenced UST was removed or at any time by Keenan Oil for this Site. Therefore, on January 24, 2017 the Division confirmed a release from the former gasoline UST located at the Green Electric Site.

The 1988 SUPERB Act offered an early detection incentive program, wherein a person who made a written report of a release during the statutory amnesty period would not be required to satisfy a deductible under SUPERB. Keenan Oil made reports for releases at other sites during the amnesty period, but did not report a release at the Green Electric Site.

As the tank owner at the time of tank removal, Keenan Oil is responsible for site rehabilitation of this release. The release is qualified for State Underground Petroleum Environmental Response Bank (SUPERB) funding however, since the release was not reported by June 30, 1993, Keenan Oil must satisfy a \$25,000 deductible prior to accessing SUPERB funds toward cleanup of the release as set forth under the SUPERB Act.

b) Parties and Other Relevant Names

Requestor, Keenan Oil Co., Inc., owner of the underground storage tank formerly located at 2248 Sumter Street, Columbia, S.C.

ARM Environmental Services, Inc., contractor for another party unrelated to Keenan Oil, who was issued a permit on November 8, 2016 to install three temporary monitoring wells on

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the property at 2248 Sumter Street, Columbia, S.C., which resulted in the detection of a petroleum release at the Green Electric Site.

c) Location: UST Site ID# 07705, Green Electric Co., 2248 Sumter Street, Columbia, S.C.

d) Relevant Chronology

May 2, 1988 -

In 1988, South Carolina enacted the State Underground Petroleum Environmental Response Bank (SUPERB) Act, S.C. Code § 44-2-10 et seq. The 1988 SUPERB Act established an incentive program "to encourage early detection, reporting, and cleanup of releases from leaking petroleum storage tanks." S.C. Code § 44-2-110 (1988).

March 14, 1989 -

1989 Tank Fee Notification. Keenan Oil submitted a letter to the Department reporting the removal of USTs from a list of sites, including the Green Electric Site. Keenan Oil did not report any releases in this letter.

June 30, 1993 –

Amnesty Period Ends (midnight deadline to make a written report of a release to the Department. The end date for the amnesty period was extended several times, but finally ended at midnight on June 30, 1993. See 1992 Act No. 501, Part II, Section 43F).

December 2, 2016 –

The Division received a phase II assessment report that indicated the existence of a petroleum release at the Site, with levels of petroleum constituents that exceeded the risk based screening levels in groundwater samples collected from temporary monitoring wells on the Site.

January 24, 2017 –

- The Division confirmed a release from the former gasoline UST located at the Green Electric Site. Specific petroleum additives documented in the phase II assessment report samples are consistent with gasoline production around 1988.
- > The Division determined that the release was eligible for cleanup using SUPERB funds.
- The Division sent Keenan Oil a letter, that as the tank owner, Keenan Oil must satisfy a \$25,000.00 deductible prior to the Division using SUPERB funds.

II. RELEVANT LAW

a) S.C. Code § 44-2-110 (1988).

The 1988 SUPERB Act established a general grace period (amnesty) "beginning on January 1, 1988 and ending on December 31, 1989," for reporting petroleum releases from underground storage tanks (USTs). S.C. Code § 44-2-110 (1988).

Pursuant thereto, the department shall establish reasonable requirements for the written **reporting of petroleum releases** and distribute the forms ... to be used for **the purpose of reporting petroleum releases**. Until the forms are available for distribution, the department shall take **reports of these releases** however made but shall notify any person making a report that a written **report of the release** will be required by the department at a later time, the form for which will be provided by the department. All *sites* **involving releases** from underground storage tanks **reported** to the department any time from midnight on December 31, 1987, to midnight on December 31, 1989, regardless of whether the **release** occurred before or after January 1, 1988, are **qualified** *sites* for the expenditure of funds from the Superb Account, provided that a written report is filed with respect thereto. ...

S.C. Code § 44-2-110 (1988). (emphasis added).

b) S.C. Code §44-2-130(A) (1988).

The 1988 SUPERB Act also established that the amount of site rehabilitation costs from the SUPERB Account was dependent upon when the **release** was reported to the department, as provided under § 44-2-110.

To encourage voluntary rehabilitation, a person conducting site rehabilitation under Section 44-2-110, which defines the early detection incentive program... is entitled to...be reimbursed from the Superb Account for reasonable costs incurred in connection with the site rehabilitation if prior approval therefor is obtained from the department. **Prior to or during the grace period established under the early detection incentive program**, the person is eligible ... for all reasonable costs incurred in connection with site rehabilitation. **Subsequent to the grace period**...the person is eligible ... for reasonable costs incurred in excess of one hundred thousand dollars ["deductible"]...¹

S.C. Code §44-2-130(A) (1988). (emphasis added).

c) 1985 UST Control Regulations, R. 61-92.

The 1985 UST Control Regulations, R. 61-92, preceded the 1988 SUPERB Act.² These regulations set forth requirements for abandonment of USTs, including an annual reporting

¹ In 1990, the deductible amount was lowered from "one hundred thousand dollars" to "twenty-five thousand dollars." See 1990 Act No. 473, Section 7.

² The 1985 UST Control Regulations, R. 61-92, were promulgated pursuant to the South Carolina Pollution Control Act, S.C. Code § 48-1-10 et seq, and S.C. Code § 44-55-10 et seq., entitled "Water, Sewage, Waste Disposal and the Like." State Register, Vol. 9, Issue 5, May 24, 1985.

requirement to notify the Department of any USTs abandoned in the past year. The regulations also required reporting of known UST failures that may have resulted in releases. However, the statutory requirement to report a release during the amnesty period was different from the regulatory annual reporting requirement.

- i) "The owner or operator of any tank which has been abandoned ... shall notify the Department in accordance with the annual reporting requirements in Section R.61-92.7.H." 61-92.12.C. (1985).
- "Beginning January 1987, tank owners or operators must submit a report to the Department... if they have within the past calendar year: (1) Abandoned a tank..."
 61-92.12.C. (1985).

The purpose of the SUPERB Act is to protect citizens' health, safety, and welfare by creating a regulatory program to reduce the risk of releases from underground storage tanks and conduct site rehabilitation activities for petroleum releases from regulated USTs. The SUPERB Act and the regulations promulgated pursuant to it (S.C. Regs. 61-92, Part 280 and 61-98) set forth requirements for site rehabilitation for releases from USTs and for accessing funds from the SUPERB account. S.C. Code § 44-2-50. The law confers upon the Division the regulatory authority and responsibility to accomplish the purposes of the Act. The S.C. UST Control Regulations 61-92, Part 280 (2008) and SUPERB R. 61-98, Site Rehabilitation and Fund Access Regulations (1997), provide the framework in which the Division must operate. All decisions made by staff must be aligned with these regulations.

III. STAFF RESPONSE TO GROUNDS IN THE REQUEST FOR REVIEW

a) Keenan Oil contends that it should not have to pay any deductible for the cleanup of the release at the Green Electric Site, because during the grace period Keenan Oil reported that it removed a UST from the Green Electric Site.

Keenan Oil submitted a letter to the Department, dated March 14, 1989, with the subject line "Re: Annual Registration Fee for UST" (1989 Tank Fee Notification). Keenan Oil's 1989 Tank Fee Notification did not report any releases. The 1989 Tank Fee Notification was submitted in accordance with the regulatory requirement that tank owners or operators must annually notify the Department of any tanks abandoned³ within the past calendar year. S.C. Reg. 61-92.7.H. (1985); S.C. Reg. 61-92.12.C. (1985).

In its 1989 Tank Fee Notification, Keenan Oil made the following requests, "[p]er the South Carolina Underground Storage Tank Control regulations R.61-92-7, please receive the below list as notification of tanks no longer in operation" and "[p]lease remove all the above equipment from the annual registration fee charge." The 1989 Tank Fee Notification indicated that Keenan Oil "removed and disposed of" a tank from the Green Electric Site prior to December 24, 1988.

³ "Abandoned tank" means a tank which has had all regulated substances removed and which is not intended to be returned to operation. R.61-92.3.A. (1985).

Keenan Oil submitted the 1989 Tank Fee Notification during the amnesty period. This **notification did not report a release.** Notification of tank removal from a Site is not **notification of a release.** Keenan Oil did not report any release at the Green Electric Site during the amnesty period. However, Keenan Oil did report releases at several other sites during the amnesty period. Keenan Oil reported 13 releases prior to July 1, 1993, including reporting a release on June 30, 1993, the last day of the amnesty period. (Attachment 1)

In 2016, subsequent to the grace period, the release at the Green Electric Site was reported to the Department by another party, not Keenan Oil. This release is qualified for SUPERB funds after the deductible has been paid. Therefore, Keenan Oil is responsible for paying the deductible prior to accessing SUPERB funds for this Site.

b) Keenan Oil contends it is qualified to receive SUPERB funds to cover <u>all</u> reasonable costs incurred in connection with site rehabilitation, regardless of when the release occurred, and is not responsible for any deductible before receiving SUPERB funds, because Keenan Oil reported the site to the Department during the grace period under the law existing at the time of tank removal.

The 1988 SUPERB Act was the statute in effect at the time Keenan Oil reported the removal of the UST from the Site. Section 44-2-110 of the 1988 SUPERB Act stated, "[a]ll sites involving releases from underground storage tanks reported to the department any time from midnight on December 31, 1987 to midnight on December 31, 1989, regardless of whether the release occurred before or after January 1, 1988, are qualified sites for the expenditure of funds from the SUPERB Account, provided that a written report is filed with respect thereto."

Section 44-2-130 of the 1988 SUPERB Act addressed compensation from the SUPERB account and referred to § 44-2-110 to define the early detection incentive program. Section 44-2-110 required that a release be reported to the Department, not simply a site. Under § 44-2-130(A), a person who reported a release "[p]rior to or during the grace period" would be eligible for reimbursement of "all reasonable costs ... for site rehabilitation," up to the statutory maximum, without having to meet any deductible. However, a person who reported a release "[s]ubsequent to the grace period" would be eligible for reimbursement of "reasonable costs ... in excess of" the deductible, up to the statutory maximum.

The plain language of § 44-2-110 (1988) states multiple times that the subject of what was to be reported was the "release," and not the site. In 1995, the Legislature amended the SUPERB Act to clarify its intent that several sections, including §§ 44-2-110, 44-2-130, applied to **releases** at a site rather than to sites. See 1995 Act no. 145, Part II, Section 2E. Thus both the 1988 SUPERB Act as well as the version current today, as amended in 1995, require a person to make a "written report of a release" and not only of a site, during the grace period in order to be eligible for all reasonable costs.

The 1989 Tank Fee Notification did not include any indication or sample results that would identify there was a release at the Site. Keenan Oil did not report a release at the Green

Electric Site during the amnesty period established in the 1988 SUBPERB Act therefore, Keenan Oil must be responsible for the \$25,000 deductible prior to accessing SUPERB.

c) Keenan Oil contends that this 2017 staff decision is in direct conflict with a 2008 DHEC Board Decision.

A 2008 decision determined in that case that Keenan Oil would not be required to pay the deductible for a release at the Carolina Tractor and Equipment Site. The 2008 Board Decision did not make any substantive findings or give any indication as to why it made such a decision. Determinations involving the SUPERB Account are fact-specific. This Board's decision regarding this matter should be determined based upon the facts before it today.

The staff decision at issue today is for a release reported on December 2, 2016. Section 44-2-110 states "all releases from USTs reported to the department any time from midnight on December 31, 1987 to midnight on June 30, 1993... are qualified for expenditure of funds from the SUPERB account, provided that a written report is filed with respect to it." The release at issue today was not reported prior to midnight on June 30, 1993.

d) Keenan Oil contends that it removed the UST at the Green Electric Site and made the required reporting to the Department in accordance with the regulations in effect at the time of the removal.

The requirement to report a release during the amnesty period was in the 1988 statute, and not required in the UST regulations in effect when Keenan Oil removed the tank from the Green Electric Site. The 1985 UST regulations required tank abandonment notification found in R.61-92.7.H. Keenan Oil notified the Department of tanks removed per the applicable regulatory requirements, and was therefore no longer subject to the responsibility for tank fees, providing financial responsibility and maintaining those USTs. However, Keenan's 1989 Tank Fee Notification did not report a release at this Site.

IV. REQUESTED ACTION

The Department respectfully requests that the Board deny the Request for Final Review, thereby upholding the staff determination that the release at the Green Electric Site, reported on December 2, 2016, qualifies for SUPERB funding, following Keenan Oil's satisfaction of the twenty-five thousand dollar deductible required under the SUPERB Act.

Attachments:

Attachment 1 – Keenan Release Report made June 30, 1993

Attachment 2 – Release declaration letter

Attachment 3 - Phase II assessment report and memo, received December 2, 2016

HHachment 1



Commissioner: Michael D. Jarrett

Boend: John B. Pate, MD, Chairman William E. Applegate, III, Vice Chairman John H. Burriss, Secretary Toney Graham, Jr., MD Richard E. Jabbour, DDS Henry S. Jordan, MD Currie B. Spivey, Jr.

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Promoting Health, Protecting the Environment

S.C. UNDERGROUND STORAGE TANKS REPORT OF SUSPECTED/CONFIRMED RELEASE

TODAY'S DATE: 6/29/93			
REPORTED BY: VIRICALP, INC ETE DIVISION	_ PHONE:	957-6270	_
(print) ADDRESS: 1445 MISEAH CHURCH RE.	AU		
LEYTNOTON, SC 29072			
OWNER NAME: KEERAN OIL CO.	PHONE: _	256-0667	
FACILITY NAME: Eau Claire 66		55	
ADDRESS: Monticello Road	f.	•	
Columbic, SC			
S.C. UST REGISTRATION #: 07197			
DATE DISCOVERED: 6/23/93			
HOW DISCOVERED: LABORATORY ANALYSIS		RECEIVEL JUNS 0 1993	
TYPE OF PRODUCT RELEASED: CASOL NUE		ELVA	
HOW RELEASE OCCURRED:	Gj	Oundway 0 1993	J
		OUN 3 0 1993 Oundwater Protection Division	
Release from UST system.		and and the	
INITIAL CLEAN-UP MEASURES TAKEN:			
UST system permanently closed.	1		
SIGNATURE OF PERSON COMPLETING FORM:	MA	Ž)•	
Be sure to notify all other relevant j	parties	tmant Eta)	

(i.e., Facility Owner, Adjacent Property Owners, EPA, Fire Department, Etc.) and to follow the directives of Subpart E of the S.C. Underground States Free Free Free Regulation oil 22 of 119

Attachment 32



January 24, 2017

Keenan Oil Co., Inc. PO Box 3218 Columbia, SC 29230-3218

Re: Underground Storage Tank (UST) Permit - 07705 Green Electric Co., 2248 Sumter St., Columbia, SC Report received - December 2, 2016

Dear Sir or Madam:

An assessment report received by the UST Management Division on December 2, 2016, indicates that groundwater collected from a temporary monitoring well at this location is contaminated with petroleum constituents. A file review indicates Keenan Oil Co., Inc. as the tank owner at the time of tank removal and therefore, the responsible party for the petroleum contamination documented in the Phase II assessment. The State Underground Petroleum Environmental Response Bank (SUPERB) Account provides financial assistance for the cleanup of a site contaminated by a release from a regulated UST system provided that the facility associated with the release meets certain eligibility criteria. The Division has determined that this release is eligible for cleanup using SUPERB funds. The responsible party must satisfy a \$25,000.00 deductible prior to the Division using SUPERB funds.

The SUPERB Act Section 44-2-130(E)(1) states: "An owner or operator of an underground storage tank or his agent seeking to qualify for compensation from the Superb Account for site rehabilitation shall submit a written application to the department." For your convenience, a SUPERB Account Application/Statement of Insurance form is enclosed. Please complete and return the attached form. You must request access to the SUPERB Account in order for the Division to complete the SUPERB qualification process.

South Carolina UST Control Regulation 61-92, Section 280.93(a) and 280.113 of the South Carolina Underground Storage Tank Control Regulations requires that tank owners submit and maintain proof of financial responsibility (FR) until subsequent corrective action is complete.

Should you have any questions pertaining to this matter, please contact me at (803) 898-0647.

Respectfully.

Denise .n. Place Denise M. Place Regulatory Compliance Section UST Management Division Bureau of Land and Waste Management

Enclosure

S.C. Department of Health and Environmental Control

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an dita any salah sa SCBHEC FRC 17-RFR-12 Keenan Oil 23 of 119

Pursuant to the State Un	derground Petroleum	Environmental Response	Bank (SUPERB) Act 4	4-2-130(E)(1): "An ow(
or operator of an underg	round storage tank or	his agent seeking to qualif lication to the department.	v for compensation fro	m the SUPERB Accourt
Permit #:		Facility Name:		
Facility Address:				
Owner Name:				
Owner Address:				
Owner Phone #:				
For the following section,	circle YES or NO:			
YES or NO i reque	est compensation fr	rom the SUPERB Accou	int for the release o	discovered/reported
SUBERB ACT 44-2-130),	According to departme	eductible prior to the Divisi ent records, you/your comp ne release was reported.	hany had	26 VOUL
Letter of Credit	Insurance Policy	Self-Insurance	Surety Bond	Guarantee
his site is potentially eligi	I ble to receive state mo	NSURANCE STATEMENT	ilitation Before eligibil	ihy for the SLIDEDD fund
his site is potentially eligi an be determined, writter required, Please circle	I ble to receive state monopoly confirmation of the ex YES or NO with regard ever been an insurance	NSURANCE STATEMENT onies to assist in site rehab xistence or non-existence o d to the following: ce policy or other financial	ilitation, Before eligibil of an environmental ins	ity for the SUPERB fund surance policy for this si
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AHachment 3



MEMORANDUM

То:	Chris Doll, P.G., Section Manager Assessment Section UST Management Division, BLWM
From:	Denise M. Place Dm) Regulatory Compliance Section UST Management Division, BLWM
Through:	Eric Cathcart, Section Manager Regulatory Compliance Section UST Management Division, BLWM
Date:	January 23, 2017
Re:	UST Permit – 07705 Green Electric Co., 2248 Sumter St., Columbia, SC Release reported – December 2, 2016

Our records indicate that one gasoline UST was owned by Keenan Oil Co., Inc. at the referenced location. The UST is listed as removed from the ground but the Division has no record of having received a closure report and does not have a removal date. No additional information exists and the file has been purged.

The Division received a Phase II assessment report on December 2, 2016 indicating that petroleum constituents exceed RBSL's for groundwater collected from a temporary monitoring well on site.

No previous releases have been reported for this location and there are no known offsite sources. Therefore, a release has been entered with Keenan Oil Co., Inc. as the responsible party.

Due to the lack of compliance history for this facility, a Substantial Compliance Worksheet will not be completed. The Division will favor eligibility and find this release in substantial compliance.

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S.C. Department of Health and Environmental Control

Comme Designations

SCBHEC FRC 17-RFR-12 Keenan Oil 25 of 119

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Site Name/ID#	Ment	Flict		78+=1=1+1		07705
Release #	For UST#	1 Pri de organites and gamme	Rela	case Report Date	12-	2-16
Free Product Repor	ted? Yes/	No li	mpacted water	' supply well repo	Richlo rted? V	es/No
Receptor w/in 1000	feet of US	T syste	m? (Well, Su	rface water body	, wetland	d, other)
Triage (Indicate type	of submit	tal)				
CR		/				
AR	RBSL				~~~~	
Worst Case Sample	(mg/kg)	(ug/kg)	Soil #	-	RBSL [ug/l]	Water (ug/l)/#
Benzene	.007	7	19 day man man gang dan di san di		5	180
Toluene	1.45	1450		1	000	UD
Ethylbenzene	1.15	1150	and a state of the	_ 7	'00	
Xylenes	14.5	1450		. 1	0,000	A second se
Naphthalene (8260)	.036	36		2	5	
Naphthalene (8270)	.036	36	and and a start of the start of the	2	5	
PAH's						
Benzo(a)anthracene	.66	660 _	ور معالم المحمد ا			
Benzo(b)flouranthene	.66	660				
Benzo(k)flouranthene	.66	660				
Chrysene	.66	660				
Dibenz(a,h)anthracene	.66	660				7 4
Other		_			-	
MTBE (water only)				40)	11
1,2-DCA				5		8.5
EDB				.0;	- 5	<u></u>
Other					-	
er e		154 v 200				A March Speet State
POTENTIAL SC DEN	VIAL? YI	ES / NO	•			
1. All USTs Registered	? Ces No	/NA	\sim			
2. All Applicable Annua	al Fees Pa	id? Yes	/No(NA)			
 Financial Responsibi Insurance Statement I 	lity Mecha Requested	anism ve 12 Mar /	erified? Yes /N	o/NA Type	Sene.	
5. UST Status (account)	for all US	Ts in da	(tahase)	ceived? Yes/No		
USTs Permanently	Closed	Date Ch	nsed	Last Used Date		2
USTs CIU & Pass 6. RP – Owner signatur		Jate 1 cs	sted	_ Date Repaired_		
7. Site Map Requested?			ved Yes No			
8. AST's present? Yes/	No	۰ <u>م</u> م				
NFA? Y	'es	No)			

NFA? Manager Approval_ ----

-

Fw: 2244 Sumter Street

McInnis, Jonathan

Fri 12/2/2016 13:29 AM

To Place, Denise <placedm@dhec.sc.gov>;

4 attachments (1 M8)

Site Plan and Lab Data.pdf;

Your #7705 I believe. Can someone give Andy feedback on these results? I can tell you the 1,2-DCA detection would only make the site our lowest priority here and likely we would not open any investigation. Thanks!

Jonathan

Jonathan G. McInnis, Program Manager Federal & State Site Assessment Section Division of Site Assessment, Remediation, and Revitalization Bureau of Land & Waste Management S.C. Dept. of Health & Environmental Control 2600 Bull Street Columbia, SC 29201 Office: (803) 898-0802 Fax: (803) 898-1297 mcinnijg@dhec.sc.gov Connect: www.scdhec.gov Facebook Twitter



From: Andy Wilson <awilson@armenv.com> Sent: Friday, December 2, 2016 10:04 AM To: McInnis, Jonathan Cc: Michele McLeod Subject: 2244 Sumter Street

Good morning. Attached is information on a recent Phase II that we have completed. The site is the former location of Green Electric Company. According to regulatory data we evaluated during a Phase I, this site had a 1,000 gallon UST that was removed in 1991. The property is currently owned by First Citizens Bank (Raleigh, NC) through foreclosure.

We represent the potential buyer and we have recommended that we get y 'all's decision regarding any additional work that may be required. I will get you the 1903 forms early next week. Meanwhile, please evaluate this data and let us know your opinion. Thanks.

Andrew M. Wilson, P.G. ARM Environmental Services, Inc.

SCBHEC FRC 17-RFR-12 Keenan Oil 27 of 119 https://withook.office385.com/cutal?winutmodal=ReadMasseenellem&item1D=&AMk&DhbYTcQOWM71T7IMintNGY3Nv057m1141WEv7i7k7mRm7mE37ARG

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12/2/2016

Fw: 2244 Sumter Street - Place, Denise

1210 First Street South Columbia, SC 29209 awilson@armenv.com ph: 803 783-3314 cell: 803 269-3908

AHachment Z

Report of Analysis

ARM Environmental Services, Inc. 1210 1st Street S. Ext. Columbia, SC 29209 Attention: Michael Faris

Project Name: 2244 Sumter St

Project Number:08-281-16

Lot Number:RK21011 Date Completed:11/28/2016

Lucas Odom

Project Manager





This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative ARM Environmental Services, Inc. Lot Number: RK21011

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Sheaty Environmental Services, Inc. ("Sheaty") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Sheaty policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary ARM Environmental Services, Inc.

Lot Number: RK21011

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	TMW-1	Aqueous	11/18/2016 1530	11/21/2016
002	TMW-2	Aqueous	11/18/2016 1600	11/21/2016
003	E-WMT	Aqueous	11/18/2016 1700	11/21/2016
(3 samples)			· · · · · · · · · · · · · · · · · · ·	

Executive Summary

ARM Environmental Services, Inc.

Lot Number: RK21011

Sampl	e Sample ID	Matrix	Parameter	Method	Result () Units	Page
001	TMW-1	Aqueous	Benzene	8260B	180	ug/L	5
001	TMW-1	Aqueous	1,2-Dichloroethane	8250B	8.5	ugil	5
001	ТИW-1	Aqueous	Methyl tertiary butyl ether	8260B	11-11	ug/L	5
002	TMW-2	Aqueous	Benzene	8260B	10	ug/L	7
002	TMW-2	Aqueous	Chloroform	8260B	6.0	ug/L	7

(5 detections)

i a i

Client: ARM Environmental Services, Inc. Description: TMW-1

Description. THIN-1

Date Sampled:11/18/2016 1530 Date Received: 11/21/2016 Laboratory ID: RK21011-001 Matrix: Aqueous

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1		vsis Date Analyst 2016 1157 TML	Prep Date	Batch 27802		
Parameter			CAS	Analytica)	······			
Acelone		Num		Method	Result Q	PQL	Units	Run
Benzene		67-6		82608	ND	20	ug/L	1
Bromodichloromethane		71-4		8260B	180	5.0	ug/L	1
Bromotorm		75-2	-	8260B	ND	5.0	Ug/L	1
Bromomethane (Methyl bromide)		75-2		82608	ND	5.0	ug/L	1
2-Butanone (MEK))	74-8		82608	ND	5.0	ug/L	1
Carbon disulfide		78-9		82608	ND	10	ug/L	1
Carbon tetrachloride		75-1		8260B	ND	5.0	ug/L	1
Chiorobenzene		56-2		82608	ND	5.0	ug/L	3
Chloroethane		108-9(8260B	ND	5.0	ug/L	1
Chicroemane		75-0		8260B	ND	5.0	ug/L	1
		67-6		8260B	ND	5.0	ug/L	1
Chloromethane (Methyl chloride) Cyclohexane		74-8	-	8260B	ND	5.0	ug/L	1
•		10-82		8260B	ND	5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DE Dibromochloromethane	BCP)	96-12		82600	ND	5.0	ug/L	1
1,2-Dibromosthane (EDB)		124-48		82608	ND	5.0	ug/L	1
1,2-Dichlorobenzene		106-93		8260B	ND	5.0	ug/L	1
1,3-Dichlorobenzene		95-60		8260B	ND	5.0	ug/L	1
1.4-Dichlcrobenzene		541-73		82608	ND	5.0	ոՅ\/	1
Dichlorodifluoromethane		106-46		8260B	ND	5.0	ug/L	1
L1-Dichloroethane		75-71	-	82608	ND	5.0	ug/L	1
.2-Dichloroethane		75-34		82608	ND	5.0	ug/L	1
, 1-Dichlaroethene		107-06	-	82608	8.5	5.0	ug/L	1
us-1,2-Dichtoroothene		75-35		6260B	ND	5.0	ug/L	1
ans-1,2-Dichlorosthene		156-59		82608	ND	5.0	ug/l.	1
,2-Dichloropropane		156-60-		8260B	ND	5.0	ug/L	1
is-1,3-Dichloropropena		78-87		8260B	ND	5.0	ug/L	1
ans-1,3-Dichloropropane		10081-01-		8260B	ND	5.0	ug/L	1
thylbenzene		10061-02-	-	8260B	ND	5.0	ugl	1
-Hexanono		100-41-		8260B	ND	5.0	ug/L	5
optopylbenzene		591-78-	-	8260B	ND	10	ug/L	1
lethyl acetate		98-82-		8260B	ND	5.0	ugA	4
ethyl tertiary butyl other (MTB	n	79-20-		8260B	ND	5.0	ug/L	1
Methyl-2-pentanone	• }	1634-04-		8260B	11	5.0	ug/L	1
ethylcyclohexane		108-10-		8260B	ND	10	ug/L	1
ethyleno chloride		108-87-3		8260B	ND	5.0	ug/l.	1
lyrene		75-09-		8260B	ND	5.0	ug/L	1
1,2.2-Totrachloroethane		100-42-		8260B	ND	5.0	ug/l.	1
1,2.2-1 Urachioroginang		79-34-	*	8260B	ND	5.0	ug/L	1
sirachioroemene		127-18-4		8260B	ND	5.0	ug/L	1
AGEITE		108-88-3	3	8260B	ND	5.0	ug/l.	1

 PQL = Practical quantitation finit
 6 = Detected in the method bank
 E = Quantitation of compound exceeded the calibration range
 N = Quit of helding time

 ND = Not detected at a above the PQL
 J = Estimation descuil < PQL and (MDL)</td>
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

 Where epiticality, of isolitication and (MDL)
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

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Client: ARM Environmental Services, Inc. Description: TMW-1

Laboratory ID: RK21011-001 Málrix: Aqueous

Date Sampled:11/18/2016 1530 Date Received: 11/21/2016

	Vola	tile Orga	anic C	ompounds	by GC/MS	5		
Run Prep Method 1 50308	Analytical Metho 8260	od Dilution	Analy	sis Date Analyst 016 1157 TML		Batch 27802		
Parameter			CAS nber	Analytical Method	Rosult Q	PQL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	2	76-	13-1	8260B	NĎ	5.0	ug/L	1
1.2,4-Trichiorobenzene		120-	82-1	82608	ND	5.0	ug/L	1
1.1,1-Trichloroethane		71-	55-6	82608	ND	5.0	ugA.	1
1.1,2-Trichloroethane		79-	00-5	8260B	ND	5.0	ug/L	1
Trichloroethene		79-	01-6	8260B	ND	5.0	ug/L	1
Trichlorofluoromethane		75-	59 -4	8260B	ND	5.0	ug/L	÷
Vinyl chloride		75-()1-4	8260B	ND	2.0	ug/L	1
Xy/enes (total)		1330-2	20-7	8260B	ND	5.0		1
Surrogate	Q %	Run 1 6 Recovery	Acceptar Limit					
1,2-Dichloroethane-d4		89	70-130)				
Bramofluorobenzene		98	70-130)				
Toluene-d8		102	70-130)				

 PQL = Precised quantitation time
 B = Detected in the mathed blank
 E = Quantitation of compound exceeded the cellstellum range
 H = Out of holding time

 ND = Not detected at or above the PQL
 J = Estimated result < PQL and 2 MDL</td>
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of only is

 Where applicable, all sail sample analysis are reported on a dry weight basis unless flagged with a "V"
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of only is

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Laboratory ID: RK21011-002 Matrix: Aqueous

	Analytical Method	Dilution An	Compounds		Batch		
1 5039B	82608	5 11/2	6/2016 1221 TML		27802		
Desemator		CAS	Analytical				
Parameter Acetone		Number	Method	Result Q	PQL	Units	Run
Велгене		67-64-1	8260B	ND	20	ug/l.	1
Bromodichloromathane		71-43-2	8260B	10	5.0	ug/L	1
Bromeform		75-27-4	8260B	ND	5,0	ug/L	1
		75-25-2	82608	ND	5.0	navr	1
Bromomethane (Methyl bromide)		74-83-9	82608	ND	5.0	ug/L	1
2-Butanone (MEK)		78-93-3	8260B	ND	10	ug/L	1
Cerbon disulfide		75-15-0	8260B	ND	5.0	ug/L	1
Carbon tetrachloride		56-23-5	8260B	ND	5.0	սց/Ն	1
Chlorobenzene		108-90-7	8260B	ND	5.0	ug/L	1
Chloroethane		75-00-3	8260B	ND	5.0	ug/L	1
Chloroform		67-66-3	8260B	6.0	5.0	ug/L	1
Chloromethane (Methyl chloride)		74-87-3	82608	ND	5.0	ug/L	1
Cyclohexane		110-82-7	8260B	ND	5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCF	2)	96-12-8	8260B	ND	5.0	ug/L	1
Olbromochloromethane		124-48-1	8260B	ND	5.0	ug/L	T
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND	5.0	ug/L	٦
1,2-Dichlorobenzene		95-50-1	8260B	ND	5.0	ug/L	1
1,3 Dichlorobenzene		541-73-1	8260B	ND	5.0	ug/L	1
1,4-Dichlorobenzene		106-46-7	8260B	ND	5.0	ug/L	1
Dichloradifuoromethane		75-71-8	8260B	ND	5.0	ug/L	1
1,1-Dichloroethane		75-34-3	8260B	NO	5.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND	5,0	ug/L	1
1,1-Dichloroethene		75-35-4	8260B	ND	5.0	ug/L	1
cis-1,2-Dichlorcethene		156-59-2	8260B	ND	5.0	ug/L	1
trans-1,2 Dichloroethene		155-60-5	8260B	ND	5.0	ug/L	1
1,2-Dichloropropane		78-87-5	82608	ND	5.0	ug/L	1
cis-1,3-Dichloropropene		10061-01-5	8260B	ND	5.0	ug/L	1
rans-1,3-Dichloropropenu		10081-02-6	8260B	ND	5.0	ug/L	1
Elhylbenzene		100-41-4	8260B	ND	5.0	ug/L	1
2-Hexanone		591-78-6	82608	ND	10	սց/Ն	4
sopropylbenzana		98-82-8	8260B	ND	5,0	ug/L	1
lethyl acetate		79-20-9	8260B	ND	5.0	ug/L	1
sethyl tertiary butyl other (MTBE)		1634-04-4	8260B	ND	5.0	ug/L	1
Mathul 2-nentanone		400 40 4	00000	A100			

 PQ_ = Practical quantitation limit
 B = Detected in the method black
 F = Quantitation of compound exceeded the calibration range
 H = Out of holding time

 ND = Not detected at or above the PQL
 J = Estimated result < PQL and > NOL
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of oriteria

 Where applicable, all soit sample analysis are reported on a day weight basis unless fagged with a "W"
 P
 The RPD between two GC columns exceeds 40%
 N = Recovery is out of oriteria

108-10-1

108-87-2

75-09-2

100-42-5

79-34-5

127-18-4

108-88-3

8260B

8260B

8260B

8260B

8260B

8260B

8260B

ND

ND

ND

ND

ND

ND

ND

10

5.0

5.0

5.0

5.0

5.0

5.0

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4-Methyl-2-pentanone

1,1,2,2-Tetrachloroethane

Methylcyclohexane

Methylene chloride

Tetrachloroethene

Styrene

Toluene

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ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

1

1

1

1

1

1

1

Client: ARM Environmental Services, Inc.

Description: TMW-2

Date Sampled:11/18/2016 1600 Date Received: 11/21/2016 Laboratory ID:RK21011-002 Matrix: Aqueous

	Vola	tile Orga	nic (Compounds	by G	C/MS			
Run Prep Method 1 50308	Analytical Metho 82808			sis Date Analyst 2016 1221 TNL	Prep	Date	Batch 27802		
Parameter		Nun	CAS iber	Analytical Method	Result	Q	PQL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	•	76-1	13-1	8260B	ND		5.0	ug/L	1
1,2,4-Trichlorobenzene		120-8	32-1	8260B	ND		5.0	ug/l.	1
1,1,1-Trichloroethane		71-8	55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane		79-0	0-5	8260B	ND		5.0	ug/L	1
Trichloroethene		79-0	1-6	8260B	ND		5.0	ug/L	1
Trichlorofluoromethane		75-6	i9-4	8260B	ND		5.0	ug/L	1
Vinyt chlorida		75-0	1-4	8260B	ND		2.0	ug/L	1
Xylenes (total)		1330-2	0-7	8260B	ND		5.0	ug/L	1
Surrogate	Q %	Run 1 A Recovery	ccepta Limi						
1,2-Dichloroethane-d4		92	70-13	0					
Bromofluorobenzene		102	70-13	0					
Toluene-d8		104	70-13	0					

 PQL = Practicel quantitation limit
 D = Detected in the method blank
 E = Quantitation of compound exceeded the calibration range
 H = Out of huiding time

 ND = Not detacled at or above the FQL
 J = Estimated result < POL and > MDL
 P = The RPD between two GG columns exceeds 40%
 N = Rocovery is out of other is

 Where applicable, all so isample analysis are reported on a dry weight beats unless flagged with a "V"
 N = Rocovery is out of other is

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Laboratory ID: RK21011-003 Matrix: Aqueous

Units

Run

Date Received: 11/21/2016 Volatile Organic Compounds by GC/MS Run Prep Method Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 5030B 1 8260B 11/26/2016 1244 TML 1 27802 CAS Analytical Parameter Number Rosult Q PQL Method.

	144111941	MIGUIDO		a contract of the second	WILLO	14011
Acetone	67-64-1	8260B	ND	20	ug/l.	1
Benzena	71-43-2	8260B	ND	5.0	ug/L	1
Dromodichtoromethane	75-27-4	8260B	ND	5.0	ug/L	1
Bromotorm	75-25-2	8260B	ND	5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	82608	ND	5.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND	10	սց/Լ	1
Carbon disulfide	75-15-0	82608	ND	5.0	ug/L	1
Carbon tetrachleride	56-23-5	8260B	ND	5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND	5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND	5.0	ug/L	1
Chieroform	67-66-3	8260B	ND	5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND	5.0	ug/L	1
Cyclohexane	110-82-7	8260B	ND	5.0	սց/Լ	1
1,2-Dibromo-3-chlaropropane (DBCP)	96-12-8	8260B	ND	5.0	ս, յ/դ. Սշյ/Լ	1
Dibromochloromethane	124-48-1	82608	ND	5.0	ngyr	1
1,2-Dibromoethane (EDB)	108-93-4	8260B	ND	5.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND	5.0	ug/L	1
1.3-Dichlcrobenzene	541-73-1	82608	ND	5.0	ug/L	1
1,4-Dichforobenzene	106-46-7	8260B	ND	5.0	ug/L	1
Dichlorodifluoromothane	75-71-8	8260B	ND	5.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND	5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	5.0	աց/Լ	1
1,1-Dichlorgethene	75-35-4	82608	ND	5.0	ug/L	1
cis-1,2-Dichleroethane	156-59-2	8260B	ND	5.0	ug/L	1
trans-1,2-Dichlomethene	156-60-5	82608	ND	5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND	5.0	ug/L	1
cls-1,3-Dichloropropene	10061-01-5	8260B	ND	5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND	5.0	ug/L	1
Ethylbenzene	103-41-4	8260B	ND	5.0	ug/L	1
2-Hexanonc	591-78-6	8260B	ND	10	ນຜູກະ ນຜູກ.	1
Isopropylbenzene	98-82-8	82608	ND	5.0	ndvr ndvr	1
Methyl acetate	79-20-9	8260B	ND	5.0	ug/L	1
Methyl tertiary butyl other (MTBE)	1634-04-4	82608	ND	5.0	ug/L	1
4-Methyl-2-pentenone	108-10-1	8260B	ND	10	ug/L	1
Methylcyclohexane	108-87-2	82608	ND	5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND	5.0		1
Styrene	100-42-5	8260B	ND	5.0	ug/L	1
1,1,2,2-Tetrachleroothane	79-34-5	8260B	ND	5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND	5.0	ug/L	1
Toluene	108-88-3	8260B	ND	5.0	ug/L	
		02000	NU/	0.0	ug/L	1

 PQL = Practical quantitation limit
 B = Detected in the method blank
 E = Quantitation of compound exceeded the calibration range
 H = Qui of holding time

 ND = Not detected at or above the PQL
 J = Estimated (esuit < PQL and ≥ MDL</td>
 P = The RPD between two GC columns exceeded the calibration range
 H = Qui of holding time

 Where applicable, all solid sample analysis are reported on a dry weight basis unless tagged with a "W"
 N = Recovary is out of criteria

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Client: ARM Environmental Services, Inc. Description: TMW-3 Laboratory JD: RK21011-003 Matrix: Aqueous

Date Sampled:11/18/2016 1700 Date Received: 11/21/2016

	Volat	ile Organi	c Compounds	by GC/MS	5		
Run Prep Method, An 1 50308	nalytical Method 82608	Dilution A:	nalysis Date Analyst /26/2016 1244 TML		Batch 27802		
Parameter		CAS Number		Result Q	PQL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane		76-13-1	8260B	ND	5.0	ug/L	1
1,2,4-Trichlorobenzene		120-82-1	8260B	ND	5.0	ug/L	ī
1,1,1-Trichloroethane		71-55-6	8260B	ND	5.0	џдЛ.	1
1,1,2-Trichloroethane		79-00-5	8260B	ND	5.0	ug/L	1
Trichloroethene		79-01-6	8260B	ND	5.0	ugA	1
Trichlorofluoromethane		75-69-4	8260B	ND	5.0	ugA	1
Vinyl chloride		75-01-4	8260B	ND	2.0	ug/L	1
Xylenes (lotal)		1330-20-7	8260B	ND	5.0	ug/L	1
Surrogate	Q %		eptance Limits				
1,2-Dichlcroelhane-d4		92 7	0-130				
Bromofiuorobenzene		94 70	0-130				
Tolueno-d8	17	99 70	0-130				

 PQL = Predical quantitation limit
 B = Detected in the method blank
 E = Quantitation of compound exceeded the calibration range
 H = Quit of holding time

 ND = Not callected at or above the PQL
 J = Estimated result < PQL and ≥ MDL</td>
 P = The RPD between two GC columns exceeded 40%
 N = Recovery is out of ontona

 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "N"
 N
 N

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QC Summary

24

Sample ID: RQ27802-001 Batch:27802			Pr	Matrix: Aqueous ep Method: 5030B	3	
Analytical Method: 8260B						
Parameter	Result	<u>Q</u>	DII	PQL	Units	Analysis Date
Acetone	ND		1	20	ug/L	11/26/2016 1057
Benzene	NO		1	5.0	ug/l.	11/26/2016 1057
Bromodichloromothane	ND		1	5.0	սց/Լ	11/26/2016 1057
Bronolorm	ND		1	5.0	ug/L	11/26/2016 1057
Bromomethane (Methyl bromide)	ND		1	5.0	ug/L	11/26/2016 1057
P-Butanone (MEK)	ND		1	10	vg/l	11/26/2016 1057
Carbon disulf de	ND		1	5.0	ug/L	11/26/2016 1057
Carbon tetrachloride	ND		1	5.0	ug/L	11/26/2016 1057
hlorobanzene	ND		1	5.0	ugA	11/26/2016 1057
Chloroethano	ND		1	5.0	ug/L	11/26/2016 1057
hloroform	ND		1	5.D	ug/L	11/26/2016 1057
hloromethane (Methyl chloride)	ND		1	5.0	ug/L	11/26/2016 1057
yclohexane	ND		1	5.0	ug/L	11/26/2016 1057
2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	ug/L	11/26/2016 1057
ibromochloramethane	ND		1	5.0	ug/L	11/26/2016 1057
2-Dibromoethane (EDB)	ND		1	5.0	ug/L	11/26/2016 1057
4-Dichlorobenzene	NÐ		1	5.0	ug/L	11/26/2018 1057
3-Dichlorobenzene	ND		1	5.0	ugit	11/26/2016 1057
2-Dichlorobenzene	ND		1	5.0	ug/L	11/26/2015 1057
chlorodifluoromathane	ND		1	5.0	ijg/L	11/26/2018 1057
2-Dichloroethane	ND		1	5.0	ug/L	11/26/2016 1057
1-Dichloroethane	ND		1	5.0	ug/L	11/26/2016 1057
s-1,2-Dichloroethene	ND		1	5.0	ug/L	11/26/2016 1057
ins-1,2-Dichloroothene	ND		1	5.0	ug/L	11/26/2016 1057
1-Dichlordethene	ND		× 1	5.0	ug/L	11/26/2016 1057
2-Dichloropropane	ND		1	5.0	ug/L	11/26/2016 1057
ns-1,3-Dichloropropene	ND		1	5.0	ug/L	11/26/2016 1057
-1,3-Dichlorapropene	ND		1	5.0	ug/L	11/26/2016 1057
hylbenzene	ND		1	5.0	սց/Լ	11/26/2016 1057
Hexanone	ND		1	10	ug/L	11/26/2016 1057
propylbenzene	ND		1	5.0	ug/l,	11/26/2016 1057
thyl acetate	ND		1	5.0	ug/L	11/26/2016 1057
thyl tertiary butyl ether (MTBE)	ND		1	5.0	ug/L	11/26/2016 1057
lethyl-2-pentanone	ND		1	10	ugA.	11/26/2016 1057
thylcyclohexane	ND		1	5.0	ug/L	11/26/2016 1057
thylene chloride	ND		1	5.0	ug/L	11/26/2016 1057
rana	ND		1	5,0	ug/L	11/26/2016 1057
,2,2-Tetrachioroethane	ND		1	5.0	ug/L	11/26/2016 1057
rachioroothene	ND		1	5.0	ug/L	11/26/2016 1057
uene	ND		1	5.0	ug/L	
2-Trichloro-1,2,2-Trifiuoroethane	ND		1	5.0	ug/L	11/26/2016 1057 11/26/2016 1057
4-Trichlorobenzene	ND		1	5.0	ug/L	
2-Trichloroethane	ND		1	5.0	•	11/26/2016 1057
1-Trichloroethane	ND		1	5.0	ug/L ug/L	11/26/2016 1057 11/26/2016 1057

Volatile Organic Compounds by GC/MS - MB

POL # Practical quantitation timit

 ${\rm P}$ = The RPD between two OC columns exceeds 40%

N = Recovery is out of criterie

ND = Not detected at or shows the FQL

J = Estimated result < POL and > NDL

+ = RPD is out of oritona

Where applicable, at soil sample analysis are reported on a dry weight basis unless tagged with a "W

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Sample ID: RQ27802-001 Batch:27802				Pre	Matrix: Aqueous Method: 5030B		
Analytical Method: 8260B						<u></u>	
Parameter	Resu	lt	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND	ND		1	5.0	ug/L	11/26/2016 1057
Trichlorofluoromethane	ND			1	5.0	ug/L	11/26/2016 1057
Vinyl chloride	NÐ			1	2.0	ug/L	11/26/2016 1057
Xylenes (total)	ND			1	5.0	الوت	11/26/2016 1057
Surrogate	Q	% Rec	A	cceptance Limit			
Bromofluorobenzeno		97		70-130			
1,2-Dichlorcethane-64		90		70-130			
Toluene-d8		102		70-130			

Volatile Organic Compounds by GC/MS - MB

FQL - Practical quantitation limit P = The RPD between two GC solumna exceeds 40% N = Receivery is out of criteria ND = Not calocted at or above the PQL $J = \text{Estimated result} < \text{PQL} and \geq \text{MDL}$ + = RPO is out of criteria Where applicable, all set sample analysis are reported on a dry weight basis unless flagged with a "W" Note: Calculations are parformed before rounding to avoid round-off errors in calculated results Shealy Environmental Services, Inc.

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Volatile	Organic	Compounds	by	GC/MS	- LI	CS
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Sample	ID:	RQ27802-002
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Batch:27802 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Prep Method: 50	306
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	Spike Amount	Result				% Rec	
Parameter	(ug/L)	(ug/L)	Q	DII	% Rec	Limit	Analysis Date
Acolone	100	92		1	92	60-140	11/26/2016 0959
Benzene	50	45		1	90	70-130	11/26/2016 0959
Bromodichiaromethane	50	52		1	104	70-130	11/26/2016 0959
Bromoform	50	48		1	96	70-130	11/26/2016 0959
Bromomethane (Methyl bromide)	50	48		1	95	60-140	11/26/2016 0959
2-Butanone (MEK)	100	95		1	95	60-140	11/26/2016 0959
Carbon disulfide	50	38		1	77	60-140	11/26/2016 0959
Carbon tetrachloride	50	48		1	96	70-130	11/26/2016 0959
Chlorobenzeno	50	48		1	97	70-130	11/26/2016 0959
Chloroethane	50	42		1	84	60-140	11/26/2016 0959
Chloroform	50	47		1	95	70-130	11/26/2016 0959
Chloromethane (Methyl chloride)	50	56		1	111	60-140	11/26/2016 0959
Syclohexane	50	40		1	80	70-130	11/26/2016 0959
,2-Dibrome-3-chloropropane (DBCP)	50	50		1	101	70-130	11/26/2016 0959
libromechloromethane	50	48		1	96	70-130	11/26/2016 0959
,2-Dibromoethane (EDB)	50	48		1	95	70-130	11/26/2016 0959
,4-Dichlorobenzene	50	47		1	94	70-130	11/26/2016 0959
.3-Dichlorobenzene	50	49		1	98	70-130	11/26/2016 0959
,2-Dichlorobenzene	50	49		1	97	70-130	11/28/2016 0959
lichiorodifluoromethane	50	51		1	101	60-140	11/26/2016 0959
2-Dichloroethane	50	48		1	97	70-130	11/26/2016 0959
1-Dichloroethane	50	45		1	91	70-130	11/26/2016 0959
is-1,2-Dichloroethene	50	43		1	87	70-130	11/26/2016 0959
ans-1,2-Dichloroothene	50	43		1	86	70-130	11/26/2016 0959
1-Dichloroethene	50	42		1	83	70-130	11/26/2016 0959
2-Dichloropropane	50	48		1	96	70-130	11/26/2016 0959
aris-1,3-Dichloropropene	50	47		1	95	70-130	11/26/2016 0959
s-1,3-Dichloropropene	50	48		1	95	70-130	11/26/2016 0959
ihylbanzene	50	50		1	100	70-130	11/26/2016 0959
Hexanona	100	110		1	106	60-140	11/26/2016 0959
opropylbenzene	50	48		1	96	70-130	11/26/2016 0959
ethyl acetate	50	41		1	82	60-140	11/26/2016 0959
othyl tertiary butyl other (MTBE)	50	43		1	86	70-130	11/26/2016 0959
Methyl-2-pentanone	100	110		1	105	60-140	11/26/2016 0959
ethylcyclohexane	50	44		1	89	70-130	11/26/2016 0959
sthylene chioride	50	41		1	81	70-130	11/26/2016 0959
yrene	50	52		1	104	70-130	11/26/2016 0959
1,2,2-Tetrachloroethane	50	50		1	99	70-130	11/26/2016 0959
trachtoroethene	50	48		1	95	70-130	11/26/2016 0959
luans	50	49		1	98	70-130	11/26/2016 0959
1,2-Trichloro-1,2,2-Trifluoroethane	50	41		1	82	70-130	11/26/2016 0959
2.4-Trichlorobenzene	50	46		1	92	70-130	11/26/2016 0959
1,2-Trichloroethane	50	48		1	96	70-130	11/26/2016 0959
,1-Trichloroethane	50	46		1	93	70-130	11/26/2016 0959

POL = Practical quantitation Lmit

NO = Not detected at or above the PQL

F = The RPD between two GC columns exceeds 40%

J = Estimated result < POL and > MOL

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vanlage Point Drive West Columbia, SC 29172 (805) 791-9700 Fax (803) 791-9111 www.shealylab.com

Page: 14 of 15

Sample ID: RQ27602-002 Batch: 27802 Analytical Method: 8260B	Matrix: Aqueous Prep Method: 5030B								
Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date		
Trichloroethene	50	49		1	98	70-130	11/26/2016 0959		
Trichlorofluoromethane	50	53		1	105	70-130	11/26/2016 0959		
Vinyl chloride	50	46		1	91	70-130	11/26/2016 0959		
Xylenes (total)	100	100		1	104	70-130	11/26/2016 0959		
Surrogate	Q % Rec	Acceptanc Limit	8						
Bromofluorobenzene	100	70-130							
1,2-Dichlorcethane-d4	88	70-130							
Toluono-d8	100	70-130							

Volatile Organic Compounds by GC/MS - LCS

 PQ:. = Fractical quantifiation limit
 P + The RPD between two GC cotumns exceeds 40%
 N = Recovery is out of criteria

 ND = Not detected at crabove the PQL
 J = Estimated result < PQL and > MDL
 + = RPD is out of criteria

 Where applicable, all soil sample enclysis are reported on a dry weight basis unass flagged with a "A"
 Note: Calculations are performed before rounding to avoid round-off errors in calculated rosults

Page: 15 of 15

Chain of Custody and Miscellaneous Documents

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CHAIN	OF	CUST	ODY	RECORD	P
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SAMPLE I.D.	DATE	TIME	COMP CI	845	LOCATION	O R F S	ľ	WATER R	20	1						1	1	RK2	1011		
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7=3.7%

Sheaty Environmental Sarvers, Inc. Decoment Number, MC0011C-06

Client: ARM

Sample Receipt Checklist (SRC)

Pagelofi Fleetive Date: 11/14/2016 Expiry Date: 11/11/2021

Cooler Inspected by/date: 5,30 fillulus Lat #: 12621 011 Means of receipt: of SESI C Client UPS FedEx D Other

Van			c Client u UPS a FedEx a Other
Yes D Yes D		lo d	1. Were custody seals present on the cooler?
	and the second s	10 11	$VA \neq 2$. If outlody seals were present, were they intact and unbroken?
pH stei	p ID:		Cl strip ID:
Copier	iD/Ongina 33 4 July	al tempers	nure upon receipt/Derived (corrected) temperature upon receipt:
Adotho	$\frac{(\gamma_1)}{(\gamma_2)}$	C°C RT	°C
Method	1 of coolan	ianure Ba Ii pi Wet	and to Against Bottles IR Gun ID: U IR Gun Correction Factor: $U = 0$ les n Blue les D Dry Ico D None
Yes L	No a	NAM	 If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / smail / face-to-face (circle one).
Yes a	Noп	NAG	4. Is the commercial courier's packing slip attached to this form?
Yes p.	Nom	/	5. Were proper custody procedures (relinquished/received) followed?
Yes a	No D		6. Were sample IDs listed on the COC?
Yes.cr	No c		7. Were sample IDs listed on all sample containers?
Yes.o	No 5	The second	8. Was collection date & time listed on the COC?
Yes 3	Non		9. Was collection dule & time listed on all sample containers?
Yes, a	Noa		10. Did all container label information (ID, date, time) agree with the COC?
Yes a	Non		11. Were tests to be performed listed on the COC?
Yesja	Nu u		12. Did all samples arrive in the proper containers for each less and/or in good condition (unbroken, lids on, etc.)?
Y #5 ,12'	NOD		13. Was adequate sample volume available?
Yes m	Ngs		14. Wore all samples received within ½ the holding time of 48 hours, whichever comes first?
Yes n	No	- ME WIN	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes in	Noz	NA,a-	16. Were bubbles present >"pea-size" (14" or 6mm in diameter) in any YOA vials?
ics E	Nóe	NAD	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
les (;	Noa	NA'ø	18. Were all cyanide and/or sulfide samples received at a pH >12?
'es 🗆	Not	NAP	19. Were all applicable NH3/TKN/cyanide/phonol/BNA (<0.2mg/L) samples free of residual chlorine?
C5 🛛	Noc	NAV	2D. Were collection temperatures documented on the COC for NC samples?
¢s J	Noc	No. 1	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD dosignations, etc)
49 J	NOC	NAE	correctly transcribed from the COC into the comment section in LIMS?
	Not		22. Was the quote number used taken from the container label?
	Teservatio	m (Mus	t be completed for any sample(s) incorrectly preserved or with headspace.)
ample(s			were received incorrectly preserved and were adjusted accordingly in
	le receivin	g with	(H2SO4, HNO5, HCl, NaOH) using SR #
ample(s)	and the second se		were received with bubbles >6 mm in diameter.
imples(s		tu saul 1	same maning with THE A T well (1999) I have
Peter a	CCOPANIELY	in sample	V IEVELVING WID) SOCIEDD THOSE HERE (NasSana) with Chember Has
unple(s)	ILE WATCHI	TUJECT Na	mple(s) pH verified to be < 2 by Date:
	tels applie	we d have G of	re Not received at a pH of < 2 and were adjusted accordingly using SR#
inerstern der	aris applie	u uy, jai	Verified by: Date: 11/21/10

Comments:

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Shealy Environmental Services, Inc. 106 Vantago Point Drive West Columbia, SC 29172 (803) 751-9700 Fax (803) 791-9111 www.shealylab.com

and the set

	Sillipert Property TMW-3		
Legend:			
Project Phase II ESA F 2244 Sumter Columbia, South	e 2 Site Plan		
Scale No Scale	Date October 2016	ARM ENVIRONMENTAL SERVICES, INC.	

SCBHEC FRC 17-RFR-12 Keenan Oil 47 of 119



Allen Amsler, *Chairman* Ann B. Kirol, DDS, *Secretary* R. Kenyon Wells Board: Charles M. Joye II, P.E. L. Clarence Batts, Jr. David W. Gillespie, MD

ACKNOWLEDGMENT OF REQUEST FOR FINAL REVIEW

TO: Keenan Energy Company f/k/a Keenan Oil Co., Inc. Requestor/Permittee W. Thomas Lavender, Attorney for Requestor
 Sara P. Bazemore, Attorney for Department
 FROM: Lisa Lucas Longshore, Clerk
 RE: Docket No. 17-RFR-12, Keenan Oil Co., Inc. Requirement of payment of deductible before access to SUPERB.

DATE: February 15, 2017

A Request for Final Review of the above-referenced decision was filed on February 8, 2017. A copy of the request is attached. The Board of Health and Environmental Control will notify you by mail as to whether it will conduct a final review conference in this matter.

The Board has 60 days from the date of receipt of a Request for Final Review to conduct a final review conference. If a final review conference is scheduled, all parties will be given at least 10 calendar days' written notice of the conference.

Procedures for final review conferences and requesting further review are provided in S.C. Code Section 44-1-60. Additional information on procedures will be provided to you after the Board decides whether to conduct a final review conference in this matter.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.



Allen Amsler. *Chairman* Ann B. Kirol, DDS. *Secretary* R. Kenyon Wells Board: Charles M. Joye II, P.E. L. Clarence Batts, Jr. David W. Cillespie, MD

CERTIFICATE OF SERVICE

I, Lisa Lucas Longshore, Clerk of the SC Board of Health and Environmental Control and an employee of the South Carolina Department of Health and Environmental Control, hereby certify that I have this 15th day of February 2017, served the foregoing Acknowledgement of Request for Final Review and Notice of Procedures – Docket No. 17-RFR-12, upon all parties and/or counsel of record by electronic mail delivery as indicated below:

W. Thomas Lavender, Jr. *tlavender@nexsenpruet.com* Nexsen Pruet, LLC Post Office Drawer 2426 Columbia, SC 29202

Joan Hartley jhartley@nexsenpruet.com Nexsen Pruet, LLC Post Office Drawer 2426 Columbia, SC 29202

bazemosp Sara P. Bazemore SCDHEC – Office of General Counsel 2600 Bull Street Columbia, SC 29201

Lisa Lucas Longshore, Clerk

February 15, 2017 Columbia, South Carolina



March 17, 2017

Allen Amsler, *Chairman* Ann B. Kirol, DDS, *Vice Chair* L. Clarence Batts, Jr., *Secretary* Board: R. Kenyon Wells Charles M. Joye II, P.E. David W. Gillespie, MD

Via Email and U.S. Mail Certified 9214 8969 0099 9790 1407 7258 69

W. Thomas Lavender, Jr. Joan W. Hartley Nexsen Pruet Post Office Drawer 2426 Columbia, SC 29202

Via Electronic Mail Delivery

Sara P. Bazemore SCDHEC – Office of General Counsel 2600 Bull Street Columbia, SC 29201

RE: Docket No. 17-RFR-12, Keenan Energy Company f/k/a Keenan Oil Company, Inc.

Dear Counsel of Record:

The South Carolina Board of Health and Environmental Control ("Board") will conduct a Final Review Conference during the Board meeting on Wednesday, April 5, 2017, at 10:00 a.m. in the Board Room (3420), of the South Carolina Department of Health and Environmental Control, 2600 Bull Street, Columbia, South Carolina, on the above referenced matter.

The Board has approved the following procedures to be used during the Final Review Conference:

- Swear all witnesses (if court reporter is present)
- Presentation by parties
 - o Order of presentation:
 - DHEC Staff 5 minutes
 - Requestor, Keenan Energy Group 10 minutes
 - o Rebuttal:
 - DHEC Staff 10 minutes
 - Requestor, Keenan Energy Group 5 minutes
- Parties may present evidence; rules of admissibility of evidence do not apply
- At any time during conference, officers conducting conference may request additional information and may question parties and anyone providing information
- Burden of proof is on Requestor(s)
- Presiding officer may impose time limits
- Conference is open to the public
- Officers may deliberate in closed session
- Officers may announce decision at conclusion of conference or may reserve consideration

If any party would like to have a transcript of the review conference, please notify, via e-mail, the Clerk of Board by Friday, March 31, 2017, so that arrangements can be made to have a reporter present for the conference. The parties requesting a court reporter will be responsible for payment of the court reporter.

Sincerely,

horphore isa fucas

Lisa Lucas Longshore Clerk