



Division Waste Management and Radiation Control



USED OIL PROCESSOR PERMIT

WASTE MANAGEMENT
& RADIATION CONTROL

Permittee Name: Rock Canyon Oil, LLC

Permittee Mailing Address: 1669 South 580 East
American Fork, UT 84003

Permittee Phone Number: (801) 756-2000

Permittee Contact: Gary Maxwell
General Manager
(801) 420-1640 (cell)
Email: gary@rockcanyonoil.com

Facility Address: 1669 South 580 East
American Fork, UT 84003

Facility Contact: Gary Maxwell
General Manager
(801) 420-1640 (cell)
Email: gary@rockcanyonoil.com

Type of Permit: Used Oil Processor Permit

Permit #: UOP-0122

Original Issue Date: January 10, 2011

EPA ID #: UTR000010454

Signature: _____ Date: _____

Scott T. Anderson, Director
Division of Waste Management and Radiation Control

I.A. Effect of Permit

- I.A.1. Rock Canyon Oil, LLC. (hereafter referred to as “Permittee”) is hereby authorized to operate as a Used Oil Processor located at 1669 South 580 East, American Fork, Utah (Attachment 1 – Facility Site Plan Map) in accordance with all applicable requirements of R315-15 of the Utah Administrative Code and of the Used Oil Management Act (the Act) 19-6-701 et. seq., Utah Code Annotated and this Permit.
- I.A.2. This permit shall be effective for a term not to exceed ten years in accordance with the requirements of R315-15-15 of the Utah Administrative Code.
- I.A.3. Attachments incorporated by reference are enforceable conditions of this Permit, as are documents incorporated by reference into the attachments. Language in Conditions I and II supersedes any conflicting language in the attachments or documents incorporated into the attachments.
- I.A.4. It shall not constitute a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the Permittee’s business activity in order to maintain compliance with the conditions of this Permit and its attachments.

I.B. Permit Revocation

- I.B.1. Violation of any permit condition or failure to comply with any applicable provision of the applicable statutes and rules shall be grounds for enforcement actions, including revocation of this Permit. The Director shall notify the Permittee in writing of his intent to revoke this Permit.

I.C. Permit Modification

- I.C.1. The Permittee may request modifications to any item or operational activity covered by this Permit by submitting a written permit modification request to the Director. If the Director determines the modification request is substantive, a public hearing, a 15-day public comment period or both may be required before a decision by the Director on the modification request. Implementing a modification prior to the Director’s written approval constitutes a violation of this Permit and may be grounds for enforcement action or permit revocation.
- I.C.2. Changes in operational activities include any expansion of the facility beyond the areas designated, alteration of processing operational parameters, changes in the type or number of storage tanks, piping, other equipment and changes to the contingency plan.
- I.C.3. The Director may require the Permittee to submit additional information when reviewing permit modification requests to ensure the safe handling of used oil at the processing facility in accordance with Section 19-6-710(3)(b)(xii) Utah Code Annotated.
- I.C.4. The Director may modify this Permit as necessary to protect human health and the environment or because of statutory or regulatory changes.

I.C.5. The Permittee shall notify the Director, in writing, of any non-substantive changes, such as changes in the contact person, within 20 days of the change.

I.D. Emergency Controls and Contingency Plan

I.D.1. The Permittee shall take all reasonable steps to minimize releases to the environment and shall carry out such measures as are necessary to protect human health and the environment. In the event of a release of used oil, the Permittee shall immediately take appropriate actions in accordance with the Permittee's Emergency Controls and Contingency Plan (Attachment 3), and R315-15-9 of the Utah Administrative Code.

I.D.2. The Permittee shall keep a current copy and all revisions of the Emergency Controls and Contingency Plan (Attachment 3) on site until facility closure.

I.D.3. The Permittee shall provide a current copy to local police, fire departments, hospitals and State local emergency response teams that may be called upon during an emergency in accordance with R315-15-5.3(b)(3) of the Utah Administrative Code.

I.D.4. The Permittee shall implement the Contingency Plan whenever there is an imminent or an actual emergency.

I.D.5. The Permittee shall notify the Utah Department of Environmental Quality's 24-hour Answering Service, (801) 536-4123, for used oil releases exceeding 25 gallons or for smaller releases that pose a potential threat to human health or the environment in accordance with R315-15-9.1 of the Utah Administrative Code. The Permittee shall provide the information required by R315-15-9.1(c) of the Utah Administrative Code.

I.D.6. In accordance with R315-15-9.4 of the Utah Administrative Code, the Permittee shall submit to the Director a written report within 15 days of any reportable release of used oil. The report shall also include a description of actions taken by the Permittee to prevent future spills.

I.E. Facility Equipment, Maintenance and Secondary Containment

I.E.1 The Permittee shall maintain and operate the Processor facility to minimize the possibility of fire, explosion or sudden or non-sudden release of used oil to air, ground, soil, surface and groundwater and sewer systems that could threaten human health and the environment.

I.E.2. The Permittee shall maintain tanks, containers, associated piping, pumps and valves in good operational condition.

I.E.3. The Permittee shall have communication systems, fire alarms and fire suppression equipment in place and operational at the facility, as well as arrangements with local emergency response teams (i.e. fire, police and hospital) in accordance with R315-15-5.3 of the Utah Administrative Code.

I.E.4. The Permittee shall have written documentation of inspections, conducted weekly, of used oil equipment, secondary containment, containers, tanks, fire suppression systems (portable and fixed), and testing of emergency alarms for fire and emergency

communication systems in accordance with Attachment 2 (Safety, Security and Inspection Forms).

- I.E.5. Inspection documents shall include inspector's name, date, areas inspected, any problems found, and the subsequent actions taken by the facility to maintain system integrity.
- I.E.6. The Permittee shall secure the facility, lock the entrance security gate and maintain adequate perimeter fencing to prevent access by unauthorized persons or vehicles during hours when the facility is closed and the Permittees authorized personnel are not present.
- I.E.7. The Permittee shall maintain spill kits and fire extinguishers as specified in Attachment 3 (Emergency Controls and Contingency Plan). The Facility Site Plan Map (Attachment 1) shows the location of the spill kits, and fire extinguishers, used oil storage areas and of emergency equipment.
- I.E.8. The Permittee shall construct and maintain a secondary containment system for used oil containers, tanks, piping and other ancillary processing tanks and equipment in accordance with R315-15-5.5(c) of the Utah Administrative Code. The joints between the concrete floor, containment walls and the tank pads shall be sealed to prevent migration of oil to the soil and groundwater. Any alterations or additions to the secondary containment system must be approval by the Director before changes are implemented.
- I.E.8.1 The truck loading /unloading area shall be constructed of concrete and graded to drain all spills and runoff into the above-ground storage tank containment.
- I.E.9. Used oil, water or other liquids that may accumulate in the secondary containment system or any ancillary facility sumps shall be removed within 24 hours of discovery to prevent the possible migration to soil, ground or surface waters.

I.F. Record Keeping Requirements and Retention

- I.F.1. The Permittee shall maintain all used oil records required by R315-15 of the Utah Administrative Code and this Permit at the Permittee's Processor facility located at located at 1669 South 580 East, American Fork in Utah.
- I.F.2. Records may be in hard copy or in an electronic format and shall be readily accessible for inspection by authorized representatives of the Director. The Permittee shall maintain, for a minimum of three years, all applicable used oil processor tracking records required by R315-15 of the Utah Administrative Code and this Permit, with the exception of the facility operating record, which shall be maintained until facility closure.
- I.F.3. The Permittee shall maintain other records (e.g. training and financial assurance) required by R315-15 of the Utah Administration Code and this Permit.
- I.F.4. The Permittee shall maintain the following written (or electronic) tracking records that document used oil operations conducted at this processing facility.

- I.F.4.a. The Permittee shall maintain records of used oil accepted at the facility or shipped from the facility in accordance with the requirements of R315-15-5.7(a) and R315-15-5.7(b), respectively, of the Utah Administrative Code.
- I.F.4.b. The Permittee shall maintain used oil storage tank records (bulk storage) that document the date, time, operator (initials), and volume of the used oil deposited into each tank and the date, time, operator (initials), and destination of the used oil removed from each tank (including inter-tank transfers).
- I.F.4.c. The Permittee shall maintain an inventory of used oil containers (with volumes) that are stored in the facility's drum storage area (Attachment 1-Facility Site Plan Map).

I.G. Operating Record

- I.G.1. The Permittee shall keep and maintain an operating record (paper or electronic) until final closure of the facility that contains the following information:
 - I.G.1.a. Documentation of all used oil analytical testing (sampling methods and analytical results) conducted to comply with the analytical requirements of R315-15-5.6 of the Utah Administrative Code and this Permit Code and this Permit.
 - I.G.1.b. Used oil-processing records in accordance with the requirements of R315-15.5 and this Permit.
 - I.G.1.c. The Permittee shall maintain summary reports and details of all incidents that require implementation of the Emergency Controls and Contingency Plan (Attachment 3).
 - I.G.1.d. The Permittee shall maintain records detailing the mass balance of oily wastewater received at the facility or generated at the facility via gravity separation and records documenting oily wastewater disposal.
 - I.G.1.e. The Permittee shall retain records detailing the mass balance of wastewater entering and leaving the facility. This includes wastewater discharge records. This does not include water used in non-contact cooling processes.

I.H. Sampling and Analysis Plan

- I.H.1. The Permittee shall follow all sampling and analytical procedures in Condition II.N and Attachments 5 (Sample Collection Procedures) and 6 (Analysis Plan) when conducting used oil sampling and analytical testing to meet the requirements of R315-15-5.6 of the Utah Administrative Code and this Permit.

I.I. Prohibitions

- I.I.1. Used shall only be stored in tanks, containers or units subject to regulations under R315-265 or R315-264 of the Utah Administrative Code.
- I.I.2. The Permittee shall not manage used oil in surface impoundments or waste piles.
- I.I.3. The Permittee shall not place, manage, discard or otherwise dispose of used oil in any manner specified in R315-15-1.3 of the Utah Administrative Code.

- I.I.4. Used oil that has been mixed with hazardous waste as defined by R315-261 of the Utah Administrative Code or PCBs as defined by R315-301-2(53) of the Utah Administrative Code shall no longer be managed as used oil and shall be subject to the rules applicable to hazardous waste and PCB-contaminated waste.
- I.I.5. Used oil shall not be stored in containers; tanks or piping that have previously stored hazardous waste, unless the tanks, containers and piping are cleaned in accordance with R315-261-7 of the Utah Administrative Code.
- I.I.6. The Permittee shall not accept used oil for storage with a PCB concentration greater than 2 mg/kg (ppm).
- I.I.7. The Permittee shall manage used oil with PCB concentrations of greater than or equal to 2 mg/kg but less than 50 mg/kg in accordance with R315-15-18 of the Utah Administrative Code. Used oil shall not be diluted to avoid any provision of any Federal or State environmental regulation.
- I.I.8. Used oil shall not be stored in tanks, containers or associated piping that have previously stored PCB contaminated materials at or above 50 mg/kg (ppm), unless the tanks, containers and piping or storage units are decontaminated as described in 40 CFR 761 Subpart S.
- I.I.9. Any used oil that was mixed with the PCB-contaminated material shall be managed in accordance with R315-15-18 of the Utah Administrative Code and 40 CFR 761 Subpart S.
- I.J. Waste Characterization and Disposal**
- I.J.1. The Permittee shall document and maintain records showing proper characterization, handling and disposal for used oil related wastes, including oily wastewater for a minimum of three years.
- I.J.2. The Permittee shall properly characterize used oil related wastes to determine if the wastes are hazardous or non-hazardous in accordance with R315-261 and R315-15-8 of the Utah Administrative Code. All wastes generated during used oil operations shall be handled in accordance with this Permit and R315-15 of the Utah Administrative Code. The wastes shall be taken to an appropriate facility permitted to handle the type of waste generated.
- I.J.3. The Permittee shall notify the Director within 24 hours of any used oil found with a PCB concentration greater than or equal to 2 mg/kg (ppm).
- I.K. Liability and Financial Assurance Requirements**
- I.K.1. The Permittee shall be financially responsible for cleanup and closure costs, general liabilities and environmental pollution legal liability for bodily or property damage to third parties resulting from sudden release of use oil in accordance with R315-15-10 through 12 of the Utah Administrative Code and this Permit.

I.K.2. The Permittee shall provide documentation of financial responsibility, for cleanup and closure, environmental pollution legal liability, and general liability coverage annually to the Director for review and approval by March 1 of each reporting year or upon request by the Director.

I.K.3. The Permittee shall receive written approval from the Director for any changes in the extent, type (e.g., mechanism, insurance carrier or financial institution), or amount of the environmental pollution legal liability or financial assurance mechanism for coverage of physical or operational conditions at the facility that change the nature and extent of cleanup and closure costs prior to implementation of these changes.

I.L. Cleanup and Closure Plan

I.L.1. The Permittee shall update its closure plan cost estimates and provide the updated estimate to the Director, in writing, within 60 days following a facility modification that causes an increase in the financial responsibility required under R315-15-10 of the Utah Administrative Code. Within 30 days of the Director's written approval, the owner or operator shall provide to the Director the information specified in R315-15-11.2(b)(2) of the Utah Administrative Code and Condition II.P of this Permit.

I.L.2. The Permittee shall initiate closure of the facility within 90 days after the Permittee receives the final volume of used oil or after the Director revokes the Permittee's Processor Permit in accordance with the requirements of R315-15-11.3 of the Utah Administrative Code and this Permit.

I.L.3. The Permittee shall remove or decontaminate used oil residues in tanks, containment system, and the environment in accordance R315-15-5.5(f) of the Utah Administrative Code and the Closure Plan, Attachment 8.

I.L.4. Within 60 days of completion of cleanup and closure, the Permittee shall submit to the Director, by registered mail, a certification that the facility has been closed in accordance with R315-15-11.4 of the Utah Administrative Code and the specifications of the approved cleanup and closure plan. An independent, Utah-registered professional engineer and the Permittee shall sign the closure certification.

I.L.5. Additional sampling and remediation may be required by the Director to verify that cleanup and closure has been completed according to R315-15 of the Utah Administrative Code.

I.M. Used Oil Handler Certificate

I.M.1. In accordance with R315-15-5.9 of the Utah Administrative Code, the Permittee shall not operate as a used oil processor without obtaining annually a Used Oil Handler Certificate from the Director. The Permittee shall pay a used oil handler fee, pursuant to Utah Administrative Code Annotated Condition 63J-1-504, by December 31 of each calendar year to receive certification for the upcoming calendar year.

I.N. Inspection and Inspection Access

- I.N.1. Any duly authorized employee of the Director may, at any reasonable time and upon presentation of credentials, have access to and the right to copy any records relating to used oil and to inspect, audit or sample. The employee may also make record of the inspection by photographic, electronic, audio, video or any other reasonable means to determine compliance.
- I.N.2. The authorized employees may collect soil, groundwater or surface water samples to evaluate the Permittee's compliance.
- I.N.3. Failure to allow reasonable access to the property by authorized employees is a "denial of access" and may be grounds for enforcement action or permit revocation.

I.O. Annual Report

- I.O.1. As required by R315-15-13.5 of the Utah Administrative Code, the Permittee shall prepare and submit an Annual Report to the Director by March 1 of the following year. The Annual Report shall describe the Permittee's used oil activities in Utah and document financial assurance using the Division's Processor Annual Report form.

I.P. Other Laws

- I.P.1. Nothing in this permit shall be construed to relieve the Permittee of his obligation to comply with any Federal, State or local law.

I.Q. Enforceability

- I.Q.1. Violations documented through the enforcement process pursuant to Utah Code Annotated 19-6-112 may result in penalties assessed in accordance with R315-102 of the Utah Administrative Code.

I.R. Effective Date

- I.R.1. The permit is effective on the date of signature by the Director.

II.A. General Operations

- II.A.1. The Permittee is authorized to store and process used oil, via gravity separation, clay filtration, vacuum distillation and blending in accordance with R315-15-5 of the Utah Administrative Code at 1669 South 580 East, American Fork in Utah. The processed used oil is marketed either as fuel, or as a lubricant. The Permittee operates a separate business, at this location, that blends and markets industrial base lubricants not regulated under R315-15 of the Utah Administration Code at this facility.
- II.A.2. The Permittee has authorization to store up to 705,652 gallons of used oil in tanks, containers and in associated processing equipment (includes used oil filters) (Attachment 1 - Facility Site Plan Map).
- II.A.3. The Permittee may only accept used oil from a Utah-permitted used oil transporter or deliveries of exempted oily wastewater from waste haulers that maintain all required permits or registrations with the State, counties or municipalities.
- II.A.4. The Permittee shall maintain a current process and instrument diagram (PID), certified by a Utah professional engineer (Attachment 4 – Process and Instrument Diagram).
- II.A.5. The Permittee shall verify, at the time of acceptance, that the transporter delivering the used oil has recorded the halogen content of the used oil on the shipping documents.
- II.A.6. The Permittee is not required to test used oil from a Utah-registered used oil marketer if the marketer provides, at the time of acceptance, analytical data results documenting that the used oil meets the specification requirements of R315-15-1.2 of the Utah Administrative Code.
- II.A.7. If the transporter has not documented the halogen content on the shipping records, then the Permittee shall determine the halogen content of the shipment of used oil received at the facility, prior to acceptance.
- II.A.8. The Permittee shall determine the halogen content by collecting a representative sample in accordance with Condition II.N and Attachment 5 (Sample Collection Procedures), and by screening the used oil sample for halogens, or by submitting the sample to a Utah-certified laboratory for analysis in accordance with the analytical requirements of Attachment 6 (Analysis Plan).
- II.A.8.a. The Permittee shall then record the results of the halogen testing of any untested used oil received at the facility in the facility operating record.
- II.A.9. The Permittee shall only deliver shipments of used oil to transporters with a valid Utah Used Oil Transporter Permit issued by the Director.
- II.A.10. The Permittee shall manage used oil recovered from oily water as used oil in accordance with R315-15 of the Utah Administrative Code and this Permit.
- II.A.11. The Permittee shall not accept or store used oil with PCB concentrations greater than or equal to 2 mg/kg (ppm) without prior written approval from the Director.

II.A.12. The Permittee shall label used oil storage tanks, drums/containers or piping (if applicable) with the words “Used Oil.”

II.A.13. The Permittee shall keep drums and containers of used oil closed except while removing or adding used oil.

II.B. Incoming Used Oil Storage Areas and Tanks

II.B.1. The Permittee shall store un-processed (incoming) used oil, accepted from used oil transporters, in the tanks/container and storage areas specified in Table II.B.

Table II.B: Incoming Used Oil Storage Tanks and Container Storage Areas

| Tank | Capacity (gallon) | Type Tank | Tank Storage Description/Location |
|----------------------------------|--------------------------|--------------------------|---|
| 101 | 22,500 | Steel Tank | Incoming Used Oil Storage/Tank Farm |
| 102 | 30,000 | Steel Tank | Incoming Used Oil Storage/Tank Farm |
| 104 | 22,500 | Steel Tank | Incoming Used Oil Storage/Tank Farm Secondary Containment Area. |
| 107 | 110,000 | Steel Tank | Incoming Used Oil Storage and On-specification Used Oil <u>Processing Feed Tank/Tank Farm</u> |
| 108 | 145,000 | Steel Tank | Incoming Used Oil Storage and <u>Processing Feed Tank/Tank Farm</u> |
| 110 | 9,500 | Steel Tank | Incoming Used Oil Storage/Tank Farm Secondary Containment Area |
| 111 | 9,500 | Steel Tank | Incoming Used Oil Storage/Tank Farm Secondary Containment Area |
| 112 | 11,500 | Steel Tank | Incoming Used Oil Storage/Tank Farm Secondary Containment Area |
| 113 | 11,500 | Steel Tank | Incoming Used Oil Storage/Tank Farm Secondary Containment Area |
| Used Oil Container Storage Areas | 2,000 | Plastic/Steel Containers | Non-bulk containers (< than 350 gallons) of used oil and used oil filters (drained and non-drained)/Unloading Loading Areas South & East of Tank Farm |

II.B.2. The Permittee shall determine that the used oil in the processing feed storage tanks #107 and #108 meets the used oil specification requirements of R315-15-1.2 prior to transferring this used oil into the facilities used oil processing tanks. The Permittee shall adhere to the specific tank sampling procedures for processing feed tanks #107 and #108 in Attachment 5 (Sample Collection Procedures).

II.B.3. The Permittee shall not process used oil that fails to meet the used oil specification requirements of R315-15-1.2.

II.C. Used Oil Processing/Auxiliary Tanks and Equipment

II.C.1. The Permittee shall store process-cooling water, oily water, processed used oil in tanks, and auxiliary equipment specified in Table II.C.

Table II.C: Facility Used Oil Processing Tanks

| Tank/Auxiliary Equipment | Capacity (gallon) | Tank/ Auxiliary Equipment Description/Location |
|---|-------------------|---|
| 118 | 2,000 | Water/Oily Water Storage Tank for use as combustor cooling water/ Tank Farm |
| 119 | 20,000 | Water Storage Tank for used cooling of equipment used to process used oil/Tank Farm |
| R201 | 5,000* | Used Oil Reactor Tank/Used Oil Processing Building |
| R202 | 5,000* | Used Oil Reactor Tank/Used Oil Processing Building |
| TK-202 | 3,000 | Processed Used Storage Tank/ Processing Building |
| Combustor Knock-Out Tank | 500 | Used oil storage tank (associated with the Vapor Combustor unit)//West of Tank Farm |
| Rotary Clay Filtration Mixing Tank | 900 | Mixing tank for Rotary Clay Filtration process (plastic)/ Along western perimeter of Tank Farm |
| Finishing Clay Filtration Unit | 2 | Small clay filter used to remove contaminants from used oil processed in the facility/Tank Farm |
| Oil/Water Separator Oil Tank | 250 | Temporary storage for used oil from oil/water separator/Tank Farm |
| *Reactor Tank Maximum Volume Operating Capacity | | |

II.D. Processed On-Specification Used Oil Storage Tanks

II.D.1. The Permittee shall only store uses oil processed in the facility in the tanks specified in Table II.D.

Table II.D: Processed On-Specification Used Oil Storage Tanks

| Tank No. | Capacity (gallon) | Type Tank | Tank Description/ Location |
|-----------------|--------------------------|------------------|--------------------------------------|
| 115 | 110,000 | Steel | Processed Used Oil storage/Tank Farm |
| 116 | 40,000 | Steel | Processed Used Oil storage/Tank Farm |
| 117 | 145,000 | Steel | Processed Used Oil storage/Tank Farm |
| 120 | 30,000 | Steel | Processed Used Oil storage/Tank Farm |

II.E. Base Oil Lubricant Product Tanks (Not Regulated Under R315-15)

- II.E.1. The Permittee shall adhere to the following conditions to protect the human health and the environment in case of an emergency at the facility for the storage tanks identified in Table II.E that are located within the Permittee’s used oil tank farm’s secondary containment area that are not regulated under R315-15 of the Utah Administrative Code. The Permittee’s tanks used to store custom base lubricant oils may be leased to another company or operated by the Permittee. Base oil lubricants may only be stored in tanks identified in Table II.E.
- II.E.2. Base oil lubricant tanks may not be directly connected, via piping, to used oil process and storage tanks or other auxiliary processing equipment regulated under R315-15 of the Utah Administration Code with the exception of tank #109 which stores distillation bottoms generated from used oil processing.
- II.E.3. The Permittee shall submit to the Director, within 20 days of the changes, a request to modify this Permit to update the information in Table II.E, Attachment 1 (Facility Diagram) and Attachment 4 (Piping and Instrument Diagram).
- II.E.4. The Permittee shall inspect new base oil lubricant tanks in accordance with the requirements of Permit Condition I.J.1 prior to use

Table II.E: Base Oil Lubricate Tanks and Distillation Bottoms

| Tank No. | Maximum Capacity (gallon) | Tank Use |
|-----------------|----------------------------------|--|
| 103 | 30,000 | Base oil lubricants not subject to regulation under R315-15. |
| 106 | 16,000 | Base oil lubricants oil not subject to regulation under R315-15. |
| 109 | 30,000 | Used oil re-refining distillation bottoms marketed as feedstock to manufacture asphalt products not subject to regulation under R315-15. |
| 121 | 10,000 | Base oil lubricants not subject to regulation under R315-15. |
| 122 | 10,000 | Base oil lubricants not subject to regulation under R315-15. |

II.F. Used Oil Vacuum Distillation Processing System

- II.F.1. The primary processing tanks used in the vacuum distillation process are horizontal steel reactor tanks #R201 and #R202 and are located in the processing building. Additional processing equipment, heat exchangers, vapor condensers, and a vertical used oil storage tank are also located inside the processing building. Two of the heat exchangers involved in the processing system are located outside, along the east wall, of the process building (Attachment 4- Process and Instrument Diagram).
- II.F.2. Feedstock oil (on-specification) from tanks #107 and #108 flows through a series of heat exchangers to raise the oil's temperature prior to transfer into reactor tank #R201. Reactor tanks #R201 and #R201 both have internal heating systems and mechanical mixers that help evenly heat the used oil in the reactors during processing. Each reactor tank is limited to processing a maximum volume of 5,000 gallons of used oil at any one time.

II.G. Description and Operation of Reactor Tank #R201

- II.G.1. There are three burner ducts located inside tank # R201. The burner ducts are 12 inches in diameter and each have three straight sections which transverse the length of the reactor. The plant Processing Computer (PPC) System allows the operator to control the volume of used oil entering reactor tank #R201 from tanks #107 and 108.
- II.G.2. The maximum temperature of the oil in tank #R201, under negative pressure, may not exceed 450° F. Contaminants that are vaporized in the process such as gasoline, water or antifreeze are piped through the Combustor Knock-Out tank where any condensate falls to the bottom of the tank. The Combustor Knock-Out tank is located west of the Tank Farm.
- II.G.3. The Vapor Combustion System, located next to the Combustor Knock-Out tank, then burns the remaining vapors generated from tank #R201.
- II.G.4. The Permittee shall operate the Vapor Combustor System at a minimum operating temperature of 1000° F during used oil processing.
- II.G.5. Processed used oil in tank #R201 is then transferred to a preheater to raise the temperature of the oil to an average of 600° F prior to transfer into Tank #R202 for additional processing.
- II.G.6. The maximum temperature of used oil transferred into tank #R202 shall not exceed 680° F.

II.H. Description and Operation of Reactor Tank # R202

- II.H.1. Tank # R202 contains one internal 24-inch diameter burner duct. This burner duct has two straight sections which transverse the length of the reactor.
- II.H.2. The maximum temperature of used oil in tank #R202, under negative pressure, shall not exceed a maximum temperature of 695° F.
- II.H.3. Oil that is vaporized in processing in tank # R202 flows into a fractionation column,

located above tank #R202 that produces a light Vacuum Gas Oil (VGO) from the lightest hydrocarbons and a medium VGO from the remaining heavier hydrocarbons.

- II.H.3.a. The light VGO then exits the top of the fractionation column, flows through a vapor-condensing unit (located above tank #R202) and into tank #TK202 before transfer to tank #120.
- II.H.3.b. The medium VGO condenses and accumulates in the bottom of the fractionation column. The medium VGO flows from the fractionation column into storage tank #117.
- II.H.3.c. The medium VGO in tank #117 may be filtered through a clay filtration system before transfer into tanks #115 or #116.
- II.H.5. The used oil distillation bottoms generated in reactor tank #R202 are transferred directly into tank #109 and are marketed by the Permittee as feedstock to manufacture asphalt products and are no longer subject to any regulatory requirements of R315-15 of the Utah Administration Code and this Permit.

II.I. Reactor Tank Design, Operation and Maintenance Requirements

- II.I.1. The Permittee shall operate reactor tanks #R201 and R202 in safe manner as specified by design, operating and maintenance requirements.
- II.I.2. Reactor tanks #R201 and #R202 shall have pressure and temperature sensors/gauges connected to the main Plant Processing Computer (PPC) system located in the control room for monitoring.
- II.I.3. The first section of the burner duct in tank # R202 shall be constructed of stainless steel and at least, twice the length of the maximum burner flame
- II.I.4. The Permittee shall position a minimum of two thermocouples on the outer wall of the burner tube in tank #R202 to allow operators to detect any overheating of the burner tube. The thermocouples are positioned approximately three and five feet from the burner, respectively. Both thermocouples shall be hard-wired into the plant PPC system. The PPC system shall be set to automatically alarm if either thermocouple exceeds the high-level temperature limit and automatically shut-down the gas burner in tank #R202.
- II.I.5. An operator shall physically inspect and remove any coking on the burner ducts in reactor tank #R201 when any burner system components (burner or burner duct) are modified or replaced.
- II.I.6. The Permittee shall document the inspection and removal of coke buildup on the burner ducts in tank #R202 if the maximum allowed temperature recorded by a thermocouple exceeds 1200 °F or whenever any burner system components are modified or replaced.
- II.I.7. The Permittee shall have written procedures for operators conducting burner duct inspections and for the removal of the coke buildup on the burner ducts.

II.I.8. The Permittee shall record the thickness of coke deposits removed from the burner ducts in the process operating records.

II.J. General Description Clay Filtration Systems

II.J.1. The oil in tank #117 may be processed through the Granular Clay Filtration (GCF) system, the Rotary Drum Clay Filtration (RDCF) or the Finishing Clay Filtration (FCF) system to remove any remaining contaminants in the oil.

II.J.2. The Permittee shall have written procedures for the operation, shut down and the disposal waste generated for each of the clay filtration systems.

II.J.3. The GCF system is comprised of up to 150 vertical clay filled columns aligned in parallel or a series. All vapors generated from the heating of the VGO are vented to the Vapor Combustor system for burning.

II.J.3.a. The GCF columns maximum operating temperature is 1000 °F with an a maximum external column temperature of 325° F. The Permittee shall periodically monitor the exterior temperatures readings for each column, using a calibrated heat-sensing gun to ensure the operating temperature is not exceeded.

II.J.4. The RDCF system mixes VGO with clay to form slurry, which adheres to the exterior wall of a rotary drum. The filtered VGO is pumped into either tank #115 or tank #116. The spent clay is scraped off the exterior wall during processing and the resulting material is collected and disposed of properly.

II.J.5. The FCF system is located next to tank #115 and is comprised of a series of small clay bag filters.

II.K. Operational Logs & Plant Processing Computer (PPC) System

II.K.1. Control room operators shall manually record in the control room operational logbook any automatic shutdown alarms which triggers the shutdown of any processing equipment. The operator shall manually record every 30 minutes the process temperatures (i.e. thermocouples, oil and combustor), pump flow rates and a tank levels on the daily process log sheet. The operational logbook and the process log sheets shall be maintained in the facility operating record until closure of the facility.

II.K.2. The Plant Processing Computer (PPC) system controls all automated processing equipment. Table II.K lists the “high-high” and “low-low” alarms settings, which trigger automatic shutdown of specific processing equipment.

II.K.3. The Permittee shall have written documentation of the operating parameters for the PPC System including connected instrumentation, and their associated alarm levels or operating limits. The procedure shall specify at what alarm levels the PPC will automatically shut down any processing equipment and any required actions by the control room operator for manual shutdown of the facility.

Table II.K: Automatic Shutdown PPC Alarms Limits

| Alarms | Action Value | Equipment Shutdown |
|---|---------------------|---------------------------|
| Combustor Temperature | >2400° F | Combustor turns off |
| Combustor Feed Elbow Temperature Sensor | > 600° F | Combustor turns off |
| R201 and R202 Low Oil Level | <4” on stick | Reactor Burner Shutdown |
| Mixer Shuts Down on R201 and R202 | Mixer Off | Reactor Burner Shutdown |
| R202 Low Air Pressure Burners | Preset Factory | Reactor Burner Shutdown |
| R202 Low Gas Pressure Burners | Preset Factory | Reactor Burner Shutdown |
| R202 High Gas Pressure Burners | Preset Factory | Reactor Burner Shutdown |
| R202 Burner Tube Sensors 1 or 2 | >1200° F | Reactor Burner Shutdown |
| Stack Temperature | >1500° F | R202 Burner Shutdown |

II.K.4. The Permittee shall record (electronically) operating processing parameters at a minimum of every 15 minutes. This electronic log data shall be stored at the facility for a minimum of one year and be available for review by the Director upon request.

II.L. Used Oil Storage Inspections

II.L.1. The Permittee shall conduct weekly inspections of used oil processing equipment tanks, auxiliary equipment, storage, tanks/containers and secondary containment systems in accordance with Attachment 2 (Safety, Security and Inspection Forms) of this Permit. The Permittee shall record the inspector’s name, the time and date of the inspection, the condition of the tanks and storage containers and the secondary containment systems. The Permittee shall document in the inspection log any issues discovered during the inspections (e.g. leaking tanks or water accumulation) and any actions taken by the Permittee to resolve these issues.

II.M. Used Oil Loading and Unloading Requirements

II.M.1. The Permittee shall ensure that operations involving the loading or unloading of used oil are conducted in accordance with Attachment 7 (Used Oil Loading and Unloading Procedures).

II.N. Used Oil Sampling and Analysis

II.N.1. The Permittee shall ensure a representative sample is collected from tanks, totes, drums or other containers in accordance with Attachment 5 (Used Oil Sample Collection Procedures). Sampling personnel shall be trained on appropriate sampling methods for each type of container and matrix.

II.N.2. Samples collected from bulk oil containers greater than 550 gallons shall be individual samples, not composite samples.

- II.N.3. A representative composite sample may be collected from individual drums or containers containing used oil from the same source. A representative composite sample may consist of not more than four drums/containers or 550 gallons, whichever is less, per composite sample. The individual samples shall be taken and consolidated into one representative composite sample (Attachment 5 – Sample Collection Procedures) and tested.
- II.N.4. Drums or containers of used oil from different sources or processes shall be sampled individually.
- II.N.5. A COLIWASA shall be used to collect samples from drums or containers less than or equal to 275 gallons. The entire COLIWASA contents shall be placed in one sample container.
- II.N.6. The Permittee shall analyze used oil and other related materials in accordance with the requirements of Attachment 6 (Analysis Plan).

II.O. Used Oil Training

- II.O.1. The Permittee shall train handlers of used oil in accordance with R315-15 of the Utah Administrative Code and the requirements of this Permit. New employees may not manage or process used oil without a trained employee present until used oil training is completed.
- II.O.2. Employee training shall include documentation that the following topics were covered; identification of used oil, recordkeeping requirements and facility used oil procedures for handling, transporting, sampling and analysis, emergency response, spill reporting and personal safety.
- II.O.3. The Permittee shall provide, at a minimum, an annual used oil-training refresher course for employees handling used oil. Additional training is required if the Permittee changes used oil handling procedures.
- II.O.4. The Permittee shall keep training records for each employee for a minimum of three years. Employees and supervisors shall sign and date training attendance sheets to document class attendance.
- II.O.5. Employees collecting and performing field halogen testing shall be trained and shall demonstrate competence in collecting a representative used oil sample and testing for halogens using a CLOR-D-TECT[®] kit prior screening used oil.

II.P. Facility Closure

- II.P.1. The Permittee shall implement the closure plan in Attachment 8 (Facility Closure Plan) to evaluate the potential impacts of used oil operations on the surrounding soil, groundwater and surface water in accordance with R315-15-11 of the Utah Administrative Code. The Permittee shall also be responsible for any cleanup of any used oil contamination that has migrated beyond the facility property boundaries in accordance with R315-15-11(d) of the Utah Administrative Code.

II.Q. Emergency Spill Response and Remediation

- II.Q.1. In accordance with R315-15-9.1 of the Utah Administrative Code, the person responsible for the spill shall immediately take appropriate action to minimize the threat to human health and the environment.
- II.Q.2. The Permittee shall notify the DEQ Hotline at (801) 536-4123 if the spill is greater than 25 gallons or smaller spills if it poses a threat to human health or the environment (Attachment 3 – Emergency Controls and Contingency Plan).
- II.Q.3. Responders shall take action to prevent spills from spreading by utilizing absorbent, dirt, booms, pads, rags, etc.
- II.Q.4. The Permittee is responsible for the material released and shall recover oil and remediate any residue from the impacted soils, water, or other property, or take any other actions as required by the Director until there is no longer a hazard to human health or the environment.
- II.Q.5. Once the material is containerized, a waste determination shall be made to determine the material’s disposition.
- II.Q.6. The Director may require additional cleanup action to protect human health or the environment.
- II.Q.7. All costs associated with the cleanup shall be at the expense of the Permittee.
- II.Q.8. Spill kits shall contain, at a minimum, the equipment listed in Table II.Q of this Permit.

Table II.Q: Spill Kit Equipment Requirements

| Equipment Description | Quantity |
|---|-------------------|
| Shovel | 1 |
| Buckets | 1 |
| Spill Pad | 10 |
| Granulated Absorbent | 2 ft ³ |
| Boom/Oil Socks | 1 |
| Spill Plan with Emergency Contact Numbers | 1 |
| Blank Spill Report Sheets | 2 |

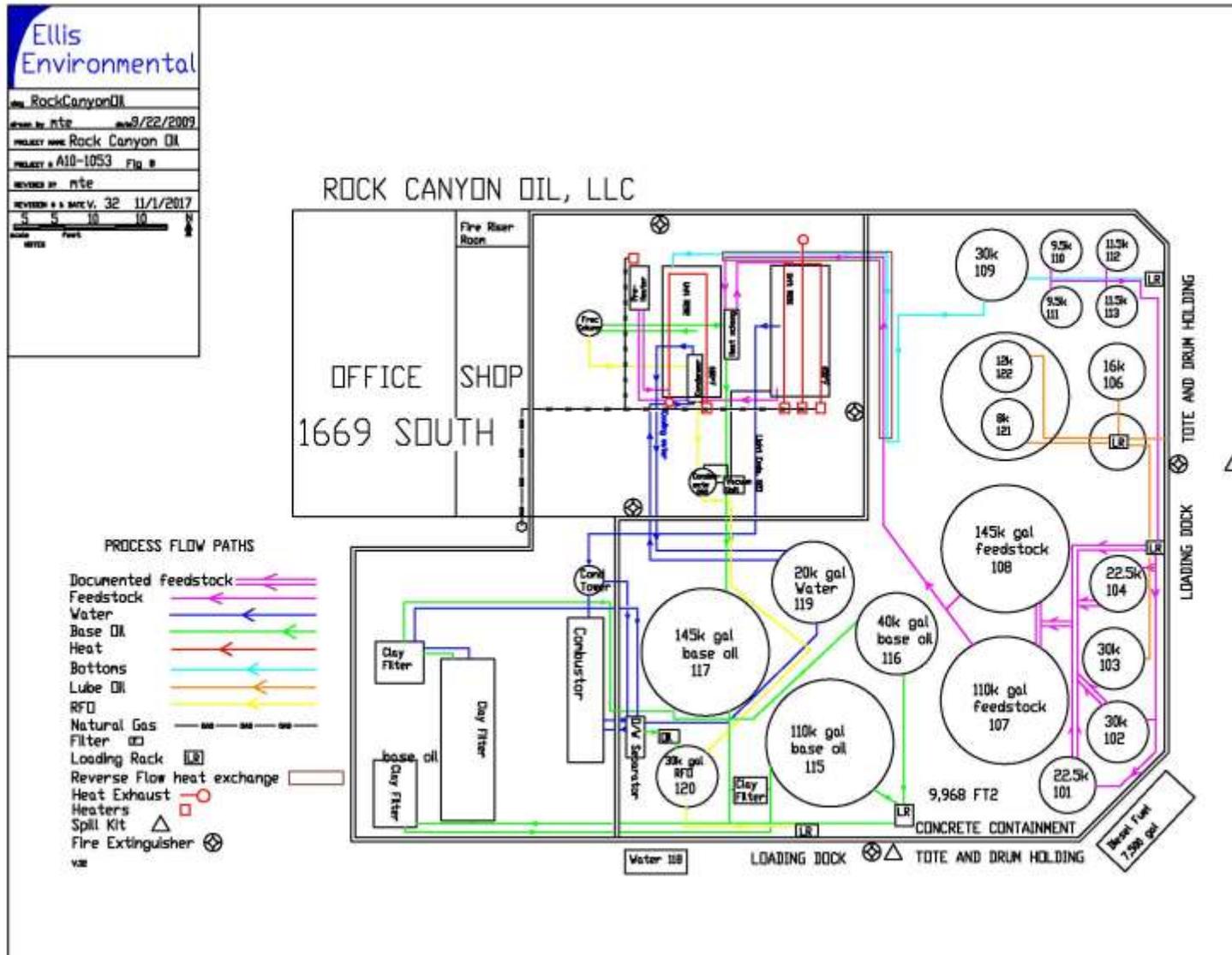
- II.Q.8. The Permittee shall report all relevant information, including the amount of waste generated from cleanup efforts, the characterization of the waste (i.e. hazardous or

non-hazardous), final waste determination, and disposal records. The report shall also include actions taken by the Permittee to prevent future spills.

- II.Q.9. In accordance with R315-15-9.4 of the Utah Administrative Code, the Permittee shall submit to the Director a written report within 15 days of any reportable release of used oil.

Draft Permit for Public Comment

Attachment 1
Facility Site Plan Map



Attachment 2

Safety, Security and Inspection Forms

A. Purpose

- A.1. Rock Canyon shall assure the protection of human health and the environment at this facility by operating in a safe manner and meeting all regulatory requirements for the maintenance and inspection of R315-15 of the Utah Administrative and this Permit.
- A.2. The Facility Site Plan Map (Attachment 1) shows the location of the used oil storage areas and of emergency equipment.

B. Inspections

- B.1. Rock Canyon shall document the inspection and maintenance of used oil tanks, fire suppression systems (portable and fixed), and facility emergency equipment. Rock Canyon’s facility manager is responsible for the implementation of the inspection program.
- B.2. Inspectors shall document inspections using the Storage and Handling Area (Appendix 1) and the Safety/Emergency Equipment (Appendix 2) inspection forms when conducting weekly inspections. Inspection forms may consist of either a written hardcopy or an equivalent electronic record.
- B.3. The facility's operating record will incorporate the inspection records (associated documents), actions taken by the facility to remedy any deficiencies identified during the inspection.
- B.4. Table B specifies the minimum frequency of the inspections of used oil storage areas and the facilities emergency equipment.

Table B: Frequency of Used Oil Inspections

| Inspection Type | Items Inspected | Frequency |
|-----------------------|---|-----------|
| Use Oil Storage Areas | Tanks/Auxiliary equipment /piping/Valves Secondary Containment Area | Weekly |
| Emergency Equipment | Spill Kits Fire Extinguishers and the Fixed Fire Suppression Systems Communication Systems, Alarms, Personal Safety Equipment First Aid Kits | Weekly |

- B.5. The inspector shall document the status of each inspected item and any problems found that require corrective action. All inspectors shall record the time/date of the inspection and initial the inspection document the time of the inspection.
- B.6. Inspectors shall notify the facility manager of any deficiencies found during inspections. The facility manager shall document in the operating record the corrective actions taken to correct any reported problems.
- B.7. Inspectors shall receive training to enable them to identify any problems associated with the used oil storage areas or emergency equipment.

Draft Permit for Public Comment

Attachment 2 - Appendix 1

Inspection Form for Storage and Handling Areas

| Rock Canyon Oil Used Oil Processor Facility | | | | | |
|---|---|---------------|-------------------------------------|---------------------------------|----------------------------------|
| Used Oil Storage and Handling Areas Weekly Inspection Form | | | | | |
| Equipment | Inspection Elements | Status | | If "Not OK" State Reason | Date Corrected (Initials) |
| | | OK | Not OK | | |
| Tanks | Check tanks for signs of deterioration | | | | |
| | Check any tank valves, any piping | | | | |
| | Check that tanks are properly labeled | | | | |
| | Check that tank valves are secure | | | | |
| Secondary Containment Areas | Check concrete for deterioration | | | | |
| | Check for oil in secondary containment areas | | | | |
| | Check for water in secondary containment area | | | | |
| Loading and Unloading Areas | Check for used oil spills. | | | | |
| Used Oil Hoses | Check used oil hoses for deterioration | | | | |
| Comments: | | | | | |
| Inspection Date: _____ | | | Inspector's Signature: _____ | | |

Attachment 2 – Appendix 2
Inspection Form for Safety/Emergency Equipment

| Rock Canyon Oil Used Oil Processor Facility Safety/Emergency Equipment Weekly Inspection Form | | | | | |
|--|--|-------------------------------------|--------|--------------------------|---------------------------|
| Equipment | Inspection Elements | Status | | If “Not OK” State Reason | Date Corrected (Initials) |
| | | OK | Not OK | | |
| Spill Kits | Inventory sheet with spill kit | | | | |
| | Verified all listed supplies are included | | | | |
| First Aid Kits | Check for presence of First Aid Kit | | | | |
| | Check First Aid Kit inventory and stock any items removed from kit (check against inventory sheet) | | | | |
| Fire Extinguishers | Check fire extinguisher tags for expiration dates. Have fire extinguishers inspected if expired. | | | | |
| | Check pressure gauges for adequate pressure | | | | |
| Communication/ECCP | Check communication systems and alarms | | | | |
| | Check that a copy of the Emergency Controls and Contingency Plan (ECCP) is available for employees | | | | |
| Fencing | Check perimeter fencing for deterioration | | | | |
| | Check gate locking mechanism is in working order | | | | |
| Comments: | | | | | |
| Inspection Date: _____ | | Inspector’s Signature: _____ | | | |

Attachment 3

Emergency Controls and Contingency Plan

A. Introduction

- A.1. Rock Canyon Oil, LLC's (Rock Canyon) Emergency Control and Contingency Plan is designed to minimize hazards to human health or the environment from fires, explosions, or any unplanned sudden or non-sudden release of used oil to air, soil, or surface water in accordance with the requirements of the Utah Administrative Code R315-15-5.3 and this Permit. Rock Canyon also will implement the applicable response required by Rock Canyon's SPPC Plan in the event of an emergency. The SPPC plan is not incorporated into this Permit.

B. Facility Description and Operations

- B.1. Rock Canyon processes/refines recyclable used oil into marketable recycled fuels and lubricants. Rock Canyon oil maintains sufficient secondary containment for stored and processed used oil as required by R315-15-5 of the Utah Administrative Code, and this Permit.

C. Site Security

- C.1. The facility operates up to 24 hours a day. A chain-link fence surrounds the tank farm and the vehicle loading and unloading area. Access to the facility is restricted to employees and authorized visitors.

D. Commitment of Manpower and Resources

- D.1. The facility shall have an emergency coordinator at the facility or on call that is available to respond to a facility emergency immediately. Table D listed the primary and secondary emergency coordinators for the facility. The emergency coordinators shall be thoroughly familiar with all aspects of the facility's emergency control and contingency plan, facility operations, and have the authority to commit the resources needed to carry out the contingency plan. In their absence, all facility personnel will evacuate to the sidewalk on the west side of the office building and the most senior employee will contact the emergency coordinators.

Table D: Facility Emergency Coordinators and Contact Information

| Emergency Coordinators | Title | Contact Information |
|-------------------------------|-----------------|---|
| Gary Maxwell | General Manager | Cell: (801) 420-1640 Email: gary@rockcanyonoil.com |
| Jay Kirchoff | Plant Manager | Cell: (801) 787-6950 |

E. Facility Emergency Equipment

E.1. The facility is equipped with the emergency equipment listed in Table E. To assure its proper operation in time of emergency, Rock Canyon shall inspect and properly maintain emergency equipment.

Table E: List of Facility Emergency Equipment

| Physical Description | Capabilities/Use |
|--|-------------------------------------|
| Spill Kit | Spill containment |
| Fire extinguishers | Extinguish fires, dry chemical type |
| First aid kit | Treat minor injuries |
| Hard hats, safety glasses, goggles, and face shields | Personal Protection |
| Communications systems | Emergency Calls |

F. Communication

F.1. In the event of an emergency or used oil spill, employees will use cell phones and in-person verbal communication to notify employees of the emergency and any need to evacuate and also to contact the supervisors and emergency coordinators and provide details regarding the emergency or spill event.

G. Facility Emergency Evacuation Plan

G.1. In the event of a serious spill, fire, or explosion, which presents possible hazards to human health and to the environment, all personnel will immediately evacuate the premises in accordance with the following procedures.

G.2. Employees shall muster on the sidewalk on the west side of the office building (Figure G: Emergency Evacuation Route Diagram).

Figure G: Emergency Evacuation Route Diagram



H. Coordination Agreements

- H.1. A copy of the Emergency Control and Contingency Plan and all revisions will be sent to the government agencies and prime emergency responders. A copy of the plan will be maintained onsite.
- H.2. The fire department is familiar with the facility layout, products transferred, stored, and handled, and waste stored.

I. Spill Control, Emergency Response and Reporting Requirements

- I.1. Rock Canyon shall immediately cleanup any spill which occurs during the loading or unloading of used oil at the facility.
- I.2. The operator shall call 911 when warranted to summon emergency personnel to the scene.
- I.3. The operator shall take action to prevent the spilled material from spreading by utilizing absorbent, dirt, booms, pads, rags, etc. The operator should prevent used oil from entering any adjacent storm water drain, sewer drain system or leaving the facility boundary.
- I.4. In the event that more resources are required, the operator will contact a supervisor to dispatch a spill response team to help facilitate the mitigation and/or remediation of the spill.
- I.5. Used oil spills exceeding 25 gallons, or smaller quantities that pose a risk to human health and the environment, shall be reported to Rock Canyon’s management and to the Utah Department of Environmental Quality immediately after containment of the spill (Table I.5). The report must follow the reporting requirements of R315-15 and Rock Canyon’s Processor Permit. Within 15 days after any release of used oil that is reported under R315-15-9 of the Utah Administrative Code, the person responsible for the material at the time of the release shall submit to the Director a written report in accordance with the reporting requirements of R315-15-9 of the Utah Administrative Code.

Table: I.5: List of Agencies to Notify in Case of a Spill

| Agencies Notification | Contact Phone Number |
|--|----------------------|
| National Response Center (if applicable) | (800) 424-8802 |
| Utah Department of Environmental Quality (within 24 hrs.) | (801) 536-4123 |

- I.6. Rock Canyon’s operators shall submit a completed spill report (Attachment 3, Appendix 1 - Rock Canyon Spill Report Form) to a supervisor at or before the end of the operators shift.

- I.7. Rock Canyon’s employees shall report any spills to plant manager (Table I - Spill Reporting and Emergency Contacts List), regardless of the volume with the exception of de minimis spills that are immediately cleaned up by the responsible employee.

Table: I.7: Spill Reporting Contact

| Contact Person | Title | Contact Information |
|-----------------------|---------------|----------------------------|
| Jay Kirchoff | Plant Manager | Cell: (801) 787-6950 |

Draft Permit for Public Comment

Attachment 3 - Appendix 1: Rock Canyon Spill Report Form

| Part A: Discharge Information | | Name of Employee Reporting Spill: | |
|--|----------------------|--|---|
| General information when reporting spill to outside agencies Name: Rock Canyon Oil, LLC. Address: 1660 South 580 East American Fork, Utah 84003 Telephone: (801) 420-1640 Owner/Operator: Rock Canyon Oil, LLC 1660 South 580 East American Fork, Utah Primary Contact: Plant Manager Jay Kirchoff Cell (24 hrs.): (801)787-6950 | | Type of oil: | Discovery date and time: |
| | | Total quantity released: | Discharge date and time: |
| | | Location/Source: | Affected media: <input type="checkbox"/> Soil <input type="checkbox"/> Surface Waters <input type="checkbox"/> Storm Drain <input type="checkbox"/> Sewer/POTW <input type="checkbox"/> Other |
| Nature of discharges, environmental/health effects, and damages: | | | |
| Actions taken to stop, remove, and mitigate impacts of the discharge: | | | |
| Part B: Notification Log | | | |
| Discharges of any Amount | Date and Time | Name of Person Receiving the Call | |
| | | | |
| Discharges Exceeding 25 gallons | Date and Time | Name of Person Receiving the Call | |
| American Fork Fire Department/Other 911 | | | |
| Utah Department of Environmental Quality (801) 536-4123 | | | |
| Other Notification Information: | | | |

Attachment 4

Piping and Instrument Diagram

- A. The Piping and Instrument Diagram is a proprietary document and is available for review at the Permittees facility upon request.

Draft Permit for Public Comment

Attachment 5

Sample Collection Procedures

A. General

- A.1. Rock Canyon operators shall adhere to sample collection procedures in this attachment to assure a representative sample is collected from tanks or containers.

B. Lock Down Procedures for Tanks # 107 and #108

- B.1. Used oil in tanks #107 and #108 must meet the specification requirements of R315-15 of the Utah Administrative Code prior to transfer into reactor tank # R201.
- B.2. The operator shall “lock down” the tank valve so that used oil cannot be added or removed from the tank. The operator shall record in the operating record the time the tank valve was locked out and current volume of used oil in the tank at the time of sampling. A representative sample will be collected from the tank and sent to a Utah certified laboratory for analysis.
- B.2. The operator may remove the lock on the tank after the plant manager has reviewed analytical data from the sample event. The operator shall record the time the lock was removed and the volume of oil transferred into tank #R201 in the operating record.

C. Tank Sampling Procedure (Recirculation Method)

C.2. Step 1

Lock down the tank valve. Circulate (mixing pump on tank) the guard tank for approximately 5-10 minutes. Unlock the sample port and open the valve and collect the sample in a sample jar. Wipe off sample port with absorbent pad, place the cap back on the sample port and lock the cap.

C.3. Step 2

Label the sample jar with the date and time sample was collection, tank number, and the name of the individual collecting the sample and a unique sample number. Package and send the sample to a Utah certified laboratory for analysis.

D. Drums/Containers \leq 275 gallons Sampling Procedure

- D.1. Sampling Method ASTM D7831 shall be followed when sampling drums/containers \leq 275 gallons.

D.2. Step 1

A COLIWASA Sampling Device: Glass or Polypropylene/ plastic type tube shall be used to collect samples from drums/containers.

D.2. Step 2

Open the COLIWASA by placing the stopper mechanism or inter tube in the open position.

D.3. Step 3

Lower the tapered end of the outer sampling tube in the liquid at a rate that allows the liquid level inside and outside to the tube to equalize. If the level of the liquid in the

sample tube is lower than that outside the sampler, the sampling rate is too fast and a non-representative will result.

- D.4. Step 4
Use the stopper or tube mechanism to close the COLIWASA when it has reached the desired depth.
- D.5. Step 5
Slowly withdraw the sample from the liquid, keeping the seal closed and holding the tube in a vertical position. Wipe the exterior of the sampler tube with a rag or allow the excess liquid to drain back into the container.
- D.6. Step 6
Open sample jar and dispense the entire contents from COLIWASA into sample jar.
- D.7. Step 7
Label the sample jar with the date and time sample was collection, tank number, and the name of the individual collecting the sample and a unique sample number. Package and send the sample to a Utah certified laboratory for analysis or screen sample the sample with a CLOR-D-TECT[®] halogen test kit (EPA Method 9077) and document the results. Follow any required laboratory procedures for proper packing and shipping.

Draft Permit for Public Comment

Attachment 6
Analysis Plan

A. Halogen Field Screening Methods

A.1. The Permittee shall screen, when applicable, used oil or oily water subject to R315-15 of the Utah Administrative Code in accordance with the following requirements:

A.1.a. CLOR-D-TECT® halogen test kit (EPA Method 9077) for oil containing less than 20% water; or

A.1.b. HYDROCLOR-Q® test kit if the oil contains between 20% and 70% water using the following conversion formula:

$$\text{True Halogen Concentration} = \text{Reading Syringe} + [(10 + \text{ml oil in sample})/10]$$

Example: sample contains 6 ml water and 4 ml oil (60% water) and the syringe reading is 2,000 ppm, then the true concentration is:

$$2,000 \text{ ppm} [(10 \text{ ml} + 4 \text{ ml})/10] = 2,800 \text{ ppm}$$

A.1.c. HYDROCLOR-Q test kit without correction for oil containing greater than 70% water.

B. Quality Control Sample

B.1. A The CLOR-D-TECT® kit (Method 9077 of SW846) requires that a quality control sample (duplicate) be analyzed for each sampling event.

C. Halogen Laboratory Analytical Methods

C.1. When relying on laboratory testing, the Permittee shall submit a representative used oil sample to a Utah-certified laboratory to analyze for total halogen concentrations using Method 9076.

D. Rebuttable Presumption

D.1. The Permittee may rebut the hazardous waste presumption in accordance with R315-15-4.5 of the Utah Administrative Code if the Permittee can demonstrate that the used oil does not contain significant concentrations of any of the halogenated hazardous constituents listed in Appendix VIII of EPA CFR 40, Part 261 that includes volatiles, semi-volatiles, PCBs, pesticides, herbicides and dioxin/furans. Generator knowledge may be used to exclude testing for pesticides, herbicides and dioxins/furans unless coming from a process where this is expected.

E. PCB Contaminated Used Oil

E.1. Laboratory testing for PCBs shall be conducted in accordance with R315-15-18(d) of the Utah Administrative Code when used to satisfy any requirements of R315-15 of the Utah Administrative Code and this Permit.

E.2. Table E lists the required PCB sample preparation and analytical methods.

Table E: PCB Sample and Preparation and Analytical Methods

| Sample Preparation Methods | Analytical Method | Analytes * | |
|---|-------------------|-------------------|--------------|
| | | PCB CAS RN | PCB Aroclor® |
| 3500C (General) 3580A (Preparation) 3665A (Cleanup) | 8082A | 12674-11-2 | 1016* |
| | | 147601-87-4 | 1210 |
| | | 151820-27-8 | 1216 |
| | | 11104-28-2 | 1221* |
| | | 37234-40-5 | 1231 |
| | | 11141-16-5 | 1232* |
| | | 71328-89-7 | 1240 |
| | | 53469-21-9 | 1242* |
| | | 12672-29-6 | 1248* |
| | | 165245-51-2 | 1250 |
| | | 89577-78-6 | 1252 |
| | | 11097-69-1 | 1254* |
| | | 11096-82-5 | 1260* |
| | | 37324-23-5 | 1262 |
| 11100-14-4 | 1268 | | |

* Note: PCB concentrations mean a record of information that describes the PCB concentration in mg/kg (ppm). A total of seven of the Aroclors® specified in the list below shall be analyzed which will include Aroclor® 1016, Aroclor® 1221, Aroclor® 1232, Aroclor® 1242, Aroclor® 1248, Aroclor® 1254, and Aroclor® 1260, and any Aroclor associated with a specific type of oil.

Attachment 7

Used Oil Loading and Unloading Operations

A. Training

- A.1. Rock Canyon's drivers and other personnel who may assist with these operations will be trained in these procedures prior to actually loading and unloading used oil at the processor facility.

B. Location of Loading and Unloading Operations

- B.1. Bulk and containers of used oil may be unloaded or loaded at two locations along the perimeter of the tank farm.
- B.2. During loading and unloading operations, a trained operator shall remain at the transfer location and maintain control of the operations throughout the entire used oil transfer.

C. Procedures

- C.1. Park the truck in the unloading area and place chocks under the wheel.
- C.2. Hook up hoses and transfer bulk oil into the appropriate tank/vehicle or place incoming drums in the drum storage areas.
- C.3. Empty any buckets placed under hose connections to capture used oil and clean up any used oil spills.
- C.4. Fill in the required information in the Oil Transfer Log book to document the amount of incoming or outgoing used oil at the facility.

Attachment 8

Facility Closure Plan

A. General

- A.1. The Permittee shall submit a written closure sampling and analysis plan to the Director for approval. The Permittee shall at time of closure comply with all of the cleanup and requirements of R315-15-5 and this Closure Plan (Attachment 8) and Table D.

B. Soil and Groundwater Testing (Task 1)

- B.1. At time of the closure of the facility, the Permittee shall sample the soil and groundwater (RCRA 8 metals, Volatiles, Semi-Volatiles, PCBs) to determine potential contamination from operational activities. The Permittee shall submit a Level IV data validation analytical package from a Utah certified laboratory, within 30 days of receipt, to the Director for review and approval.

- B.1.a. Additional sampling and remediation costs may be accrued at time of closure.

B.2. Soil Samples

- B.2.a. Twenty-two soil samples based on the 95% probability of detecting soil contamination using a 30 ft. by 30 ft. sampling grid over the secondary containment areas, unload/loading areas and 25% of the processing building are required.

B.3. Groundwater Samples

- B.3.a. Four groundwater samples based on the 95% probability of detecting groundwater contamination using a 70 ft. by 70 ft. sampling grid over the secondary containment areas and the unload/loading areas with one sample collected beneath the processing building.

C. Plant Decommission Certification (Task 2)

- C.1. Plant decommission, at time of closure, requires removal of all used oil. Other media shall be recovered from all containers and any other ancillary equipment.
- C.2. The Permittee shall dispose of used oil at an appropriately permitted management facility.
- C.3. Hazardous waste, non-hazardous waste, rinsate water, and scrap metal generated shall be transported to a recycling facility or a waste disposal facility as applicable.

D. Closure Certification Costs (Task 3)

- D.1. Closure of the facility in accordance with requirements of this Permit shall be verified by a Utah certified independent Professional Engineer (P.E.), and submitted to the Director for final approval.

Table D: Itemized Task Closure Costs for Financial Assurance

| Task | Task Description | Quantity | Units | Rate | Cost |
|-------------------------------------|---|----------|-------------------|---------------------|--------------------|
| 1 | Soil and Groundwater Testing | | | | |
| | Sample Collection (Labor) | 10 | Hours | \$75.00 | \$750.00 |
| | Sampling (labor) Supervisor | 10 | Hours | \$80.00 | \$800.00 |
| | Drilling Soil Sample Collection | 10 | Hours | \$175.00 | \$1,750.00 |
| | Soil (22)/Groundwater (4) Sample Laboratory Analytical Costs | 26 | Each | \$550.00 | \$14,300.00 |
| | Site Sampling and Analytical Sub-Total | | | | \$17,600.00 |
| 2 | Plant Decommission | | | | |
| | Removal, Transportation, Sale and/or Recycling of Used Oil | 705,652 | Gallons | \$0.08 | \$56,452.16 |
| | Disposal of used oil filters | 10 | Drum | \$107.00 | \$1,070.00 |
| | Disposal of Drums (empty) | 1 | Truck Load | \$400.00 | \$400.00 |
| | Tanks(s) Cleaning/Decontamination | 16 | Each | \$1,024.00 | \$16,384.00 |
| | Tanks Rinsate Heel/Sludge/Solids | 3,400 | Gallons | \$1.89 | \$6,426.00 |
| | Tanks Rinsate Oily Water | 6,500 | Gallons | \$0.79 | \$5,135.00 |
| | Diesel Fuel for Rinsate | 775 | Gallons | \$2.79 | \$2,162.25 |
| | Rinsate Analytical (4) (Composite Samples) | 4 | Each | \$525.00 | \$2,100.00 |
| | Steam Cleaning Concrete and Rinsate Disposal | 1 | Each | \$3,000.00 | \$3,000.00 |
| | Clean Auxiliary Equipment (Clay Filters) & Rinsate Disposal | 2 | Clay filter Units | \$1800.00 | \$3,600.00 |
| | Incineration of Transformer Oil \geq 2 ppm and <50 ppm and PCB Tank Decontamination Rinsate | 11,500 | Gallons | \$0.15 | \$1,725.00 |
| | Disposal PCB contaminated PPE and Rags (2 drums) (PPB <50 ppm) | 600 | lbs. | \$0.65 | \$390.00 |
| | Heavy Equipment for Contaminated Soil Removal | 1 | Each | \$1500.00 | \$1,500.00 |
| | Contaminated soil removal (Labor) | 5 | Hours | \$75.00 | \$375.00 |
| | Contaminated Soil Removal (Supervisor) | 5 | Hours | \$80.00 | \$400.00 |
| | Transportation and Disposal of oil Contaminated soil | 27 | Tons | \$50.00 | \$1,350.00 |
| Plant Decommission Sub-Total | | | | \$102,469.41 | |
| 3 | Final Closure Verification | | | | |
| | Independent P.E. Verification | 1 | Each | \$2,000.00 | \$2,000.00 |
| | DWMRC Review | 12 | Hour | \$90.00 | \$1,080.00 |
| | Final Closure Verification Sub-Total | | | | \$3,180.00 |
| Total Closure Cost Estimate | | | | \$123,249.41 | |