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WORKPLANS

DATE: 10-11-07



Highlander Environmental Corp.

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CERTIFIED MAIL

RETURN RECIEPT NO. 7004 2510 0001 1869 0804

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October 11, 2007

Mr. Larry Johnson Oil Conservation Division- District I 1625 N. French Drive Hobbs, New Mexico 88240

RE: INVESTIGATION & CHARACTERIZATION WORK PLAN, CELERO ENERGY II, LP, DRICKEY QUEEN UNIT <u>SALTWATER PLANT #1,</u> UNIT I, SECTION 3, T-14-S, R-31-E, CHAVES COUNTY, NEW MEXICO.

Mr. Johnson:

Celero Energy II, LP (Celero) has retained Highlander Environmental Corp. (Highlander) to address potential environmental concerns at the above-referenced site. In response, Highlander presents the following Investigation and Characterization Plan (ICP) for assessment and closure of an open pit.

BACKGROUND & PREVIOUS WORK

Celero retained Highlander Environmental (Highlander) of Midland, Texas to investigate this site as part of a due diligence in an acquisition of property operated by Palisades Asset Holding Company, LLC (Palisades). This production was originally developed in the mid-1950's. The primary surface owner in this Unit is the State of New Mexico, with the exception of one section of fee ownership. The site is shown on Figures 1 and 2.

Hydrology

Chaves County is located in the southeastern corner of New Mexico. The area is located in the High Plains Valley section of the Great Plains physiographic province. Rocks of Quaternary, Tertiary, and Triassic age are exposed and contain the principal aquifers. The most prominent aquifer is the Ogallala formation, which underlies the Llano Estacado and forms outliers south of it. Below the Cenozoic rocks are sandstones and shales of the Dockum group of Late Triassic age, from which small quantities of water are obtained. No usable groundwater is obtained from rocks older than the Triassic.

Midland, Texas 79705

(432) 682-4559

The Ogallala formation consists chiefly of sediments deposited by streams that had their headwaters in the mountainous regions to the west and northwest. The Ogallala formation rests unconformably upon an erosional surface of the underlying Triassic and Cretaceous rocks. The Ogallala is made of beds and lenses of clay, silt, sand, and gravel. Caliche occurs as a secondary deposit in many places in the formation.

Uncontaminated water from the Ogallala formation is high in silica (49 to 73 ppm), and contains moderate concentrations of calcium and magnesium. The dissolved solids content is relatively low, being typically less than 1,100 ppm. Water wells east of Mescalero Ridge derive their water from the Ogallala. The reported depth to groundwater in this area ranges from 100' to 200'. Water wells west of Mescalero Ridge derive water from the Triassic Dockum or Quaternary alluvium. No reported depths to groundwater were found for this area.

Regulatory

Neither the New Mexico State Engineer's Office database nor the USGS database show any wells in Section 3, Township 14 South, Range 31 East. Monitor wells installed near this site had depths to groundwater of greater than 100'. A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Task 1 - Dewater Pit

The DQU Saltwater Plant #1 pit is currently being dewatered. The residual sludge, bottom materials and liner will be removed. The fluids will be placed into an existing SWD system or taken to disposal, while the sludge, tank bottom materials and liner will be disposed of at the Gandy-Marley, Inc. landfill site in Lovington, New Mexico.

Task 2 - Evaluate Concentrations of Constituents of Concern in Soil

Upon completion of the removal of the fluids, sludge and liner, the underlying soils will be visually inspected for obvious signs of impact. Any soils excavated will be hauled to Gandy-Marley, Inc. for disposal. If necessary, the pit will be excavated to a point where the subsoil will support a soil boring rig that will be utilized to determine vertical extents. Additionally, soil boring may be performed around the perimeter of the pits to determine horizontal extents of impact. The information gathered will be evaluated to determine what, if any additional remediation/isolation techniques will be required at the Site. A copy of the NMOCD C-144 Pit Registration Form is attached.



Task 3 – Groundwater Investigation/Closure Plan Preparation

Once Task 2 is completed, if the data indicates the potential for groundwater impact, one monitoring well will be installed at the site to evaluate groundwater. A pit closure plan will be presented to the NMOCD for this site.

Should you have any questions, please contact me at (432) 682-4559. Your prompt review of this submission is appreciated. Thank you for your attention to this matter.

Highlander Environmental Corp.

Timothy M. Reed, P.G. Vice President

cc: Wayne Price - NMOCD, Santa Fe





District I 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> Energy	State of New Mexico Minerals and Natural Resources	Form C-144 June 1, 2004
V301 W. Grand Avenue, Artesia, MM 88210 <u>District II1</u> 1200 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Sanga Fe, NM 87505	il Conservation Division 220 South St. Francis Dr. Santa Fe, NM 87505	For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office
Pit or Below-C	rade Tank Registration or	Closure
Is pit or below-grade	tank covered by a "general plan"? Yes	
Type of action: Registration of a	pit or below-grade tank 🔯 Closure of a pit or t	pelow-grade tank
Operator Celero Energy II, LP Telephon Address: 400 West Illinois, Suite 1601, Midland, Texas 79701 Facility or well mane: Drickey Queen Unit Saltwater Plant # 1 APL#:	c: (432) 686-4883	e-mail address: bwoodard@eeleroenergy.com ir 1 Sec 3 T-14-S R-31-1
County: Chaves Lat	Mede 33.73043 N Longitude 103.80	167 W NAD: 1927 ⊠ 1983 L
	Achen mar outer trank	
Type: Drilling ☐ Production ☐ Disposal ☐ Workover ① Emergency ☑ Lined ☑ Unlined ☑ 卷 Liner type: None Thickness Unknown and Clay ☐.	Volume:bbl Type of fluid; Construction material: Double-walled, with leal: detection? Yes	If not, explain why not.
Pit Volume 25,000 bbl		
Depth to ground water (servical distance from bottom of pit to seasons high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (-0 points) 0
Wellhead protection area: (Less than 200 feet from a private domestic	Yes No	(20 points) (0 points) 0
water source, or less han 1009 leet from all other water sources.)	240.5	
Distance to surface water: (horizontal distance to all wetlands, playas inightion quasts: ditatics, and percential and ophemicral watercourses.)	200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) 10 (-0 points)
	Reaking Score (Total Points)	10
your are burying in place) onsite \Box offsite \Box if offsite, name of facil remediation start date and end date. (4) Groundwater encountered: No (5) Attach soil sample results and a diagram of sample locations and ex- Additional Comments: This registration is for information purposes of	ity (3) Attach Yes 1 If yes, show depth below ground su cavations. mly. This pit was constructed in the 1960's and	a general description of remedial action taken including infaceft. and attach sample results. were inventoried, but never registered in 1997.
This pit is out of service and a work plan for closure is being prepared	l	
* Correction - Pit Appears to	be lined	
I have be contributed and the information above in term and complete to the	hert of my knowledge and holist I further	wife that the above described air entertained at the
Las freed/will be constructed or closed according to NMOCD guid Date: 6-65-3097	letines], a general permit], or an (attach	al) altermative OCD-approved plan []. See above 🛛
Printed Name/Title Bruce Wandard, Engineer	Signature / Im D. L	\sim
Your certification and NMOCD approval of this application/closure of otherwise endanger public health or the environment. Nor does it rel regulations.	toes not relieve the operator of liability should it ieve the operator of its responsibility for compli-	he contents of the pit or tank contaminate ground water or ance with any other federal, state, or local laws and/or
Approvat: Printed Name/Ville	Signature	Date: