

Table 8  
**Groundwater Screening Evaluation**  
*H. C. Drew Estate vs Neumin Production Company and Stokes & Spiehler, Inc.*  
*North Choupique Field*  
*Calcasieu Parish, Louisiana*

Constituents	RECAP GWss (a)	SMCL (b)	Maximum Concentrations (c)	
			Total	Dissolved
<b>Metals (d)</b>				
Arsenic	0.01	-	<b>&lt;0.1 [0.0836]</b>	<0.01
Barium	2	-	0.178	0.11
Cadmium	0.005	-	<0.005	<0.005
Calcium (e)	-	-	97	-
Chromium	0.1	-	<b>0.299</b>	<0.01
Iron (f)	-	0.3	<b>11.5</b>	<b>&lt;1</b>
Lead	0.015	-	<b>0.124</b>	<0.01
Magnesium (e)	-	-	37.7	-
Manganese (f)	-	0.05	<b>5.7</b>	<b>5.07</b>
Mercury	0.002	-	<0.0002	<0.0002
Potassium (e)	-	-	1.76	0.64
Selenium	0.05	-	<0.1	-
Silver	0.018	-	<0.1	-
Sodium (e)	-	-	231	-
Strontium (g)	2.2	-	0.61	<0.2 [0.026]
Zinc	1.1	-	0.336	<0.5
<b>BTEX</b>				
Benzene	0.005	-	<0.005	-
Ethylbenzene	0.7	-	<0.005	-
Toluene	1	-	<0.01	-
m,p-Xylene (h)	10	-	<0.01	-
o-Xylene (h)	10	-	<0.005	-
Xylene (Total)	10	-	<0.05	-
<b>Water Quality</b>				
Chloride	NS	250	<b>7200</b>	-
Total Dissolved Solids	NS	500	<b>905</b>	-
<b>TPH Fractions (i)</b>				
Aliphatic C6-C8	3.2	-	<0.03	-
Aliphatic >C8-C10	0.15	-	<0.02	-
Aliphatic >C10-C12	0.15	-	<0.1	-
Aliphatic >C12-C16	0.15	-	<0.1	-
Aliphatic >C16-C35	7.3	-	<0.15	-
Aromatic >C8-C10	0.15	-	<0.03	-
Aromatic >C10-C12	0.15	-	<100	-
Aromatic >C12-C16	0.15	-	<100	-
Aromatic >C16-C21	0.15	-	<100	-
Aromatic >C21-C35	0.15	-	<100	-

Notes:

Units in mg/L.

NS - No health-based standard provided in RECAP

- Standard not applicable, or for sample results, not analyzed

TPH - Total Petroleum Hydrocarbons

BTEX - Benzene, Toluene, Ethylbenzene, and Xylene

< - Not detected at the detection limit shown

<# [#] - Reporting limit exceeded maximum concentration. Maximum reported concentration shown in brackets.

A **bold** value with shading indicates that the maximum reported concentration exceeds the GWss and is identified as subject to further risk evaluation under a higher Management Option.

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A **bold** value with no shading indicates that the maximum reported concentration exceeds the GWss but is not identified for further risk evaluation under a higher Management Option.

- (a) RECAP GWss - RECAP Screening Standard from Table 1 of RECAP 2003, unless otherwise noted.
- (b) SMCL - EPA Secondary Maximum Contaminant Level (SMCL), a non-enforceable guideline for public water systems addressing aesthetic effects such as taste, color, and odor.
- (c) Maximum reported concentrations in groundwater, including samples collected by Acadian, Southland, and ERM.
- (d) Filtered sample results (i.e., dissolved metals) are available for a subset of the samples collected at the site.
- (e) Essential elements have no RECAP standards or toxicity factors (i.e. calcium, magnesium, potassium, sodium), and are not addressed in risk evaluation.
- (f) Iron and manganese are naturally elevated above the SMCL (used as a screening standard) in groundwater in this site location as documented in independent studies by the LDEQ and in unimpacted wells on the property. Iron and manganese are not site-related constituents of concern and do not warrant further risk evaluation.
- (g) GWss not provided in RECAP; the risk-based value was calculated in accordance with Appendix H of RECAP
- (h) GWss not provided in RECAP; the risk-based value for total xylenes was used as a surrogate.
- (i) Appendix D of RECAP identifies: "If TPH fractionation data and TPH mixture data have both been collected at an AOI and the two data sets yield different conclusions about management of the AOI, then management decisions shall be based on the fractionation data since the fractionation method yields more specific information regarding the TPH constituents present and thus more accurately characterizes site conditions." TPH fraction data are used in the RECAP evaluation.