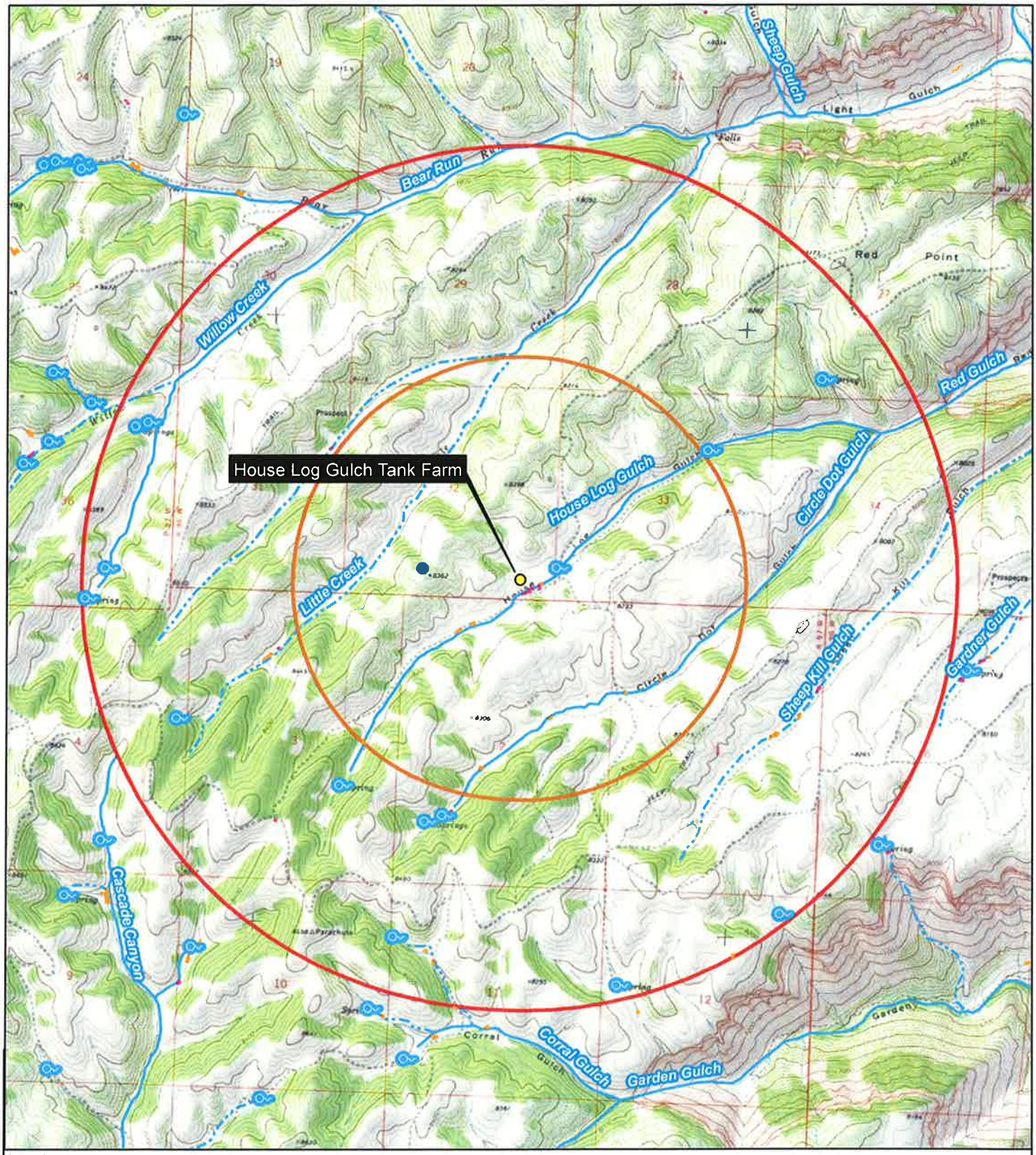

Legend

- Tank Farm Location
- 1 Mile Buffer
- 2 Mile Buffer
- USFWS NWI
- Freshwater Pond
- Emergent (Freshwater) Wetland/Marsh
- Forested Wetland
- Water Well
- Spring/Seep
- Intermittent Stream
- Perennial Stream

0 1,250 2,500 5,000 Feet

N W E S

PROJECT NO:	013-1573
DRAWN BY:	JWH
DATE:	01/06/2014

VICINITY HYDROLOGIC MAP

HOUSE LOG GULCH TANK FARM
GARFIELD COUNTY, COLORADO

OLSSON ASSOCIATES
760 HORIZON DR., SUITE 102
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FIGURE

H-1

Figure 12

Era	System	Series	Stratigraphic Unit	Thickness (feet)	Physical Description	Hydro-geologic Unit	Saturated Thickness (feet)	Hydrologic Characteristics
Cenozoic	Tertiary	Eocene	Uinta Formation	0–1,400	Silty sandstone, siltstone and marlstone	Upper Piceance Basin aquifer		Conductivity range <0.2 to >1.6 ft/day; yield 1 to 900 gpm; transmissivity 610–770 ft^2/day
			Green River Formation	As much as 5,000	*Parachute Creek Member* kergenous, dolomitic marlstone and shale 500–1,800 ft *Anvil Points Member* shale, fine-grained sandstone and marlstone 0–1,870 ft *Garden Gulch Member* claystone, siltstone, clay-rich oil shale and marlstone 0–900 ft *Douglas Creek Member* siltstone, shale and channel sandstone 0–900 ft	Mahogany confining unit Lower Piceance Basin aquifer Confining unit		Conductivity range <0.1 to >1.2 ft/day; yield 1 to 1,000 gpm; transmissivity 260–380 ft^2/d
			Wasatch Formation	About 5,000	Shale and lenticular sandstone			
		Paleocene	Fort Union Formation	Very thin	Coarse-grained sandstone	Fort Union aquifer		
Mesozoic	Cretaceous	Upper Cretaceous	Mesaverde Group	Averages 3,000 may be >7,000	*Fox-Hills Sandstone, Lewis Shale, Williams Fork Formation, Iles Formation*; sandstone interbedded shale and coal	Mesaverde aquifer	<500–2,000	
			Mancos Shale	More than 7,000	Mainly shale but Frontier Sandstone may be local aquifer	Mancos confining unit		