

**Table C4-1  
NAPL Mobility Stage 1 Testing Results**

Station ID	Core ID	Subsurface Sediment Sample ID	NAPL Mobility Sample Depth Midpoint (cm)	Core Type	Sample Type	Dry Bulk Density (g/cm <sup>3</sup> )	Grain Density (g/cm <sup>3</sup> )	Total Porosity (%Vb)	Water Pore Fluid Saturation (%Pv) <sup>1,2</sup>			NAPL Pore Fluid Saturation (%Pv) <sup>1,3</sup>		
									Initial	After Centrifugation at 25 G for 10 Hours	Water Saturation Reduction After Centrifugation (%Pv)	Initial	After Centrifugation at 25 G for 10 Hours	NAPL Saturation Reduction After Centrifugation (%Pv)
NC004SC	NC004SC-I	NC004SC-I-070107-20180126	87	Unfrozen	Sediment	0.50	2.53	80.4	87.7	71.5	16.2	2.8	2.8	0.0
	NC004SC-L	NC004SC-L-530607-20180126	559	Unfrozen	Sediment	0.55	2.43	77.5	85.0	74.7	10.3	1.5	1.5	0.0
NC011SC	NC011SC-I	NC011SC-I-248288-20180103	267	Unfrozen	Sediment	0.57	2.53	77.6	95.8	78.5	17.3	3.7	3.7	0.0
		NC011SC-I-347387-20180103	369	Unfrozen	Sediment	1.10	2.61	59.4	95.3	79.4	15.9	1.0	1.0	0.0
NC039SC	NC039SC-K	NC039SC-K-135175-20180103	171	Unfrozen	Sediment	0.60	2.59	76.0	88.9	79.2	9.7	5.4	5.4	0.0
		NC039SC-K-237277-20180103	245	Unfrozen	Sediment	0.67	2.60	74.0	88.9	80.6	8.3	7.4	7.4	0.0
		NC039SC-K-365405-20180109	395	Unfrozen	Native	1.49	2.67	44.3	78.8	74.9	3.9	3.1	3.1	0.0
NC042SC	NC042SC-J	NC042SC-J-112174-20180126	163	Unfrozen	Sediment	0.53	2.45	78.2	84.7	66.3	18.4	3.6	3.6	0.0
		NC042SC-J-198265-20180126	211	Unfrozen	Sediment	0.44	2.54	82.6	88.3	68.8	19.5	4.4	4.4	0.0
			224	Unfrozen	Sediment	1.73	2.65	34.6	82.7	56.0	26.7	1.1	1.1	0.0
NC048SC	NC048SC-J	NC048SC-J-084124-20171227	99	Unfrozen	Sediment	0.74	2.55	71.1	92.8	79.8	13.0	2.5	2.5	0.0
			119	Unfrozen	Sediment	0.75	2.55	70.7	93.0	85.8	7.2	2.1	2.1	0.0
NC050SC	NC050SC-M	NC050SC-M-187227-20171227	219	Unfrozen	Sediment	0.66	2.78	76.1	90.9	85.3	5.6	6.7	6.7	0.0
		NC050SC-M-245285-20171227	264	Unfrozen	Sediment	1.90	2.68	28.9	79.8	69.5	10.3	1.7	1.7	0.0
		NC050SC-M-285293-20171227	290	Unfrozen	Native	1.50	2.77	46.0	95.8	92.1	3.7	1.9	1.9	0.0
NC262SC	NC262SC-I	NC262SC-I-082122-20171227	98	Unfrozen	Sediment	0.64	2.74	76.6	94.6	81.2	13.4	2.3	2.3	0.0
		NC262SC-I-130169-20180212	165	Unfrozen	Sediment	1.38	2.60	46.9	80.0	68.7	11.3	6.7	6.7	0.0
		NC262SC-I-169209-20171227	204	Unfrozen	Sediment	0.72	2.59	72.0	90.8	84.0	6.8	4.3	4.3	0.0
NC346SC	NC346SC-J	NC346SC-J-115155-20180109	140	Unfrozen	Sediment	0.48	2.48	80.7	89.6	75.5	14.1	9.3	9.3	0.0
		NC346SC-J-231271-20180109	265	Unfrozen	Sediment	1.68	2.69	37.7	81.8	72.8	9.0	4.7	4.7	0.0
		NC346SC-J-329365-20180109	332	Unfrozen	Native	1.54	2.74	43.9	88.5	86.8	1.7	1.8	1.8	0.0
NC347SC	NC347SC-O	NC347SC-O-226277-20180126	264	Unfrozen	Sediment	1.82	2.57	29.0	59.3	44.4	14.9	2.1	2.1	0.0
		NC347SC-O-378451-20180126	428	Unfrozen	Sediment	0.69	2.47	72.1	86.4	83.1	3.3	1.7	1.7	0.0
NC350SC	NC350SC-I	NC350SC-I-143180-20180125	165	Unfrozen	Sediment	0.67	2.43	72.6	83.7	69.7	14.0	13.0	13.0	0.0
		NC350SC-I-259296-20180125	274	Unfrozen	Sediment	1.25	2.62	52.2	89.9	82.4	7.5	9.0	9.0	0.0

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Station ID	Core ID	Subsurface Sediment Sample ID	NAPL Mobility Sample Depth Midpoint (cm)	Core Type	Sample Type	Dry Bulk Density (g/cm <sup>3</sup> )	Grain Density (g/cm <sup>3</sup> )	Total Porosity (%Vb)	Water Pore Fluid Saturation (%Pv) <sup>1,2</sup>			NAPL Pore Fluid Saturation (%Pv) <sup>1,3</sup>		
									Initial	After Centrifugation at 25 G for 10 Hours	Water Saturation Reduction After Centrifugation (%Pv)	Initial	After Centrifugation at 25 G for 10 Hours	NAPL Saturation Reduction After Centrifugation (%Pv)
NC359SC	NC359SC-J	NC359SC-J-107122-20180501	116	Unfrozen	Sediment	0.53	2.59	79.6	73.6	61.6	12.0	6.9	6.9	0.0
		NC359SC-J-235270-20180501	241	Unfrozen	Sediment	0.66	2.46	73.1	78.9	71.9	7.0	9.6	9.6	0.0
		NC359SC-J-305329-20180501	322	Unfrozen	Native	1.57	2.68	41.6	75.4	22.6	52.8	15.7	15.7	0.0

Notes:

1 = Fluid density used to calculate pore fluid saturations: water = 0.9996 g/cm<sup>3</sup>; NAPL = 0.8600 g/cm<sup>3</sup>.

2 = Fluid saturations may not sum to 100% because gases may fill remaining pore volume.

3 = Zero reduction in NAPL pore fluid saturation after centrifugation indicates no NAPL was produced from the sample.

Total porosity = all interconnected pore channels

Acronyms:

%Pv = percent pore volume

%Vb = percent bulk volume

cm = centimeter

G = gravity

g/cm<sup>3</sup> = grams per cubic centimeter

NAPL = nonaqueous phase liquid