GeoProbe ID	Maximum PID Reading (ppm)	Approx. Depth of Max PID Reading (ft. BGS)	Soils assessment
GP-3	0.0		Below Act 2 Standards
GP-4	42.9	8.0	Below Act 2 Standards
GP-5	1271.0	1.5	Below Act 2 Standards
GP-6	15000.0	8.0	Below Act 2 Standards
GP-7	15000.0	12.0	[illegible]
GP-8	15000.0	13.0,15.0	[illegible]
GP-9	15000.0	5.0	Below Act 2 Standards
GP-10	771.0	14.0	Below Act 2 Standards
GP-11	15000.0	14.5	Below Act 2 Standards
GP-12	0.0		Non-Detect PID readings
GP-13	0.0		Non-Detect PID readings
GP-14	0.0		Non-Detect PID readings
GP-15	15000.0	6.0	Below Act 2 Standards
GP-16	12.7	12.5	Below Act 2 Standards
GP-17	809.0	11.5	Below Act 2 Standards
GP-18	0.0		Non-Detect PID readings
GP-19	0.0		Non-Detect PID readings
GP-20	7.1	10.0	Below Act 2 Standards
GP-21	32.5	11.0	Below Act 2 Standards
GP-22	89.0	6.5	Below Act 2 Standards
GP-23	0.0		Non-Detect PID readings
GP-24	10.0	3.0	Imaged Sheen PID readings
GP-25	15000.0	13.0 - 13.5	Below Act 2 Standards
GP-26	15000.0	14.0 - 15.0	Below Act 2 Standards
GP-27	173.0	12.0	Below Act 2 Standards
GP-28	0.0		Below Act 2 Standards
GP-29	0.0		Non-Detect PID readings
GP-30	0.0		Non-Detect PID readings
GP-31	0.0		Non-Detect PID readings
GP-32	0.0		Below Act 2 Standards
GP-33	0.0		Non-Detect PID readings
GP-34	0.0		Non-Detect PID readings
GP-35	0.0		Non-Detect PID readings
GP-36	0.0		Non-Detect PID readings
GP-37	0.0		Below Act 2 Standards
GP-38	0.0		Non-Detect PID readings
GP-39	0.0		Below Act 2 Standards
GP-40	0.0		Non-Detect PID readings
GP-41	0.0		Non-Detect PID readings
GP-42	90.1	4.9	Below Act 2 Standards
GP-43	1.6	7.3	Below Act 2 Standards
GP-44	9.8	4.7	Below Act 2 Standards
GP-45	0.0		Non-Detect PID readings
GP-46	3000.0	ambient air within completed borehole	Awaiting Analytical Results
GP-47	0.0		Non-Detect PID readings
GP-48	0.0		Non-Detect PID readings
GP-49	96.0	ambient air within completed borehole	Imaged Sheen PID readings
GP-50	10.0	14.1	Below Act 2 Standards
GP-51	75.0	ambient air within completed borehole	Below Act 2 Standards
GP-52	12.0	ambient air within completed borehole	Imaged Sheen PID readings
GP-53	0.2	ambient air within completed borehole	Imaged Sheen PID readings
GP-54	0.0		Awaiting Analytical Results
GP-55	0.0		Awaiting Analytical Results
GP-56	0.0		Non-Detect PID readings
GP-57	0.0		Awaiting Analytical Results
GP-58	0.0		Non-Detect PID readings
GP-59	0.0		Awaiting Analytical Results
GP-60	3.4	2.5	Awaiting Analytical Results
GP-61	2647.0	1.5	Awaiting Analytical Results
GP-62	113.0	0.8	Awaiting Analytical Results
GP-63	140.0	4.5	Awaiting Analytical Results
GP-64	0.0		Non-Detect PID readings
GP-65	0.0		Awaiting Analytical Results
GP-66	0.0		Non-Detect PID readings
GP-67	0.0		Awaiting Analytical Results

Figure 3

Chevron
Robinhill 15/18 Well Site
Geo-Probe

Robinson Twp,
Washington Co, Pennsylvania

Legend

- Current Aprox. Well Pad Dimensions
- Excavated Area
- Leak
- Geo-Probe Locations: Analytical Results and/or PID Readings Indicate Clean Soil w/r/t Act 2
- Geo-Probe Locations: Analytical Results and/or PID Readings Indicate Contamination

Prepared for:
Chevron AMSBU

Map Reference:
This exhibit is based on the ESRI Aerial Imagery
USGS topographic 7.5' quadrangle Clinton, PA

Scale: 1 inch = 100 feet
0 100 200
Feet

Job #: 12-049-JT

199 Johnson Road
Building 2 Suite 101
Houston, Pennsylvania 15342
724.746.5200 voice
724.746.5603 fax
www.moody-s.com
Moody

Drawn by	Checked by	Date	Revision
ADJ	JT	2/29/12	0

Table 1

Robinhill 15H Site Characterization - Soil Sample Analyses (vs. PADEP Act 2 Statewide Health Standards): February 13, 2012

REGULATED SUBSTANCE	Units	SOIL TO GW USED AQUIFERS TDS ≤ 2500: RESIDENTIAL 100 X GW MSC	SOIL TO GW USED AQUIFERS TDS ≤ 2500: RESIDENTIAL GENERIC VALUE	DIRECT CONTACT RESIDENTIAL 0-15 FT.	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7	CS-8	CS-9	CS-10	Background
PERCENT TOTAL SOLIDS	%	—	—	—	77.45	75.31	85.80	73.99	69.25	82.09	81.22	75.18	72.73	73.24	82.08
SVOCS															
1,2,4-TRICHLOROBENZENE	mg/kg	7	27	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-DICHLOROBENZENE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	mg/kg	60	61	660	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TRICOHLOROPHENOL	mg/kg	370	2,300	22,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-TRICOHLOROPHENOL	mg/kg	3.7	11	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DICHLOROPHENOL	mg/kg	2	1	660	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DIMETHYLPHENOL	mg/kg	73	32	4,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DINITROPHENOL	mg/kg	7.3	0.83	440	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DINITROTOLUENE	mg/kg	0.21	0.05	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-DINITROTOLUENE	mg/kg	3.7	1.1	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-CHLORONAPTHALENE	mg/kg	290	6,200	18,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-CHLOROPHENOL	mg/kg	4	4.4	1100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYL-4,6-DINITROPHENOL	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYLNAPTHALENE	mg/kg	15	600	880	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYLPHENOL	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-NITROANILINE	mg/kg	1.1	0.17	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-NITROPHENOL	mg/kg	29	5.9	1800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-DICHLOROBENZIDINE	mg/kg	0.15	8.3	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-METHYLPHENOL	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-NITROANILINE	mg/kg	11	2	660	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-BROMOPHENYL-PHENYL ETHER	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-CHLORO-3-METHYLPHENOL	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-CHLOROANILINE	mg/kg	0.33	0.42	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4 CHLOROPHENYL-PHENYL ETHER	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-METHYLPHENOL	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-NITROANILINE	mg/kg	3.3	0.49	880	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-NITROPHENOL	mg/kg	6	4.1	1800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPTHENE	mg/kg	220	2,700	13,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPTHYLENE	mg/kg	220	2,500	13,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANILINE	mg/kg	0.21	0.12	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANTHRACENE	mg/kg	6.6	350	66000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AZOBENZENE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZIDINE	mg/kg	0.000093	0.12	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (A) ANTHRACENE	mg/kg	0.029	25	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (A) PYRENE	mg/kg	0.02	46	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (B) FLUORANTHENE	mg/kg	0.0.29	40	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (G,H,I) PERYLENE	mg/kg	0.026	180	13000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (K) FLUORANTHENE	mg/kg	0.055	610	57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZOIC ACID	mg/kg	15,000	2,900	190,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZYL ALCOHOL	mg/kg	1,800	650	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 1

Robinhill 15H Site Characterization - Soil Sample Analyses (vs. PADEP Act 2 Statewide Health Standards): February 13, 2012

REGULATED SUBSTANCE	Units	SOIL TO GW USED AQUIFERS		DIRECT CONTACT	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7	CS-8	CS-9	CS-10	Background
		TDS ≤ 2500: RESIDENTIAL		RESIDENTIAL											
		100 X GW MSC	GENERIC VALUE	0-15 FT.											
BIS (2-ETHYLHEXYL) PTHALATE	mg/kg	0.6	130	1300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-CHLOROETHOXY) METHANE	mg/kg	11	2.9	660	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-CHLOROETHYL) ETHER	mg/kg	0.015	0.0045	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-CHLOROISOPROPYL) ETHER	mg/kg	30	8	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BUTYLBENZYLPHTHALATE	mg/kg	35	3,000	9,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CARBAZOLE	mg/kg	3.3	21	900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHRYSENE	mg/kg	0.19	230	570	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIBENZ (A,H) ANTHRACENE	mg/kg	0.0029	13	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIBENZOFURAN	mg/kg	3.7	95	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIETHYL PHTHALATE	mg/kg	2,900	910	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIMETHYL PHTHALATE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI-N-BUTYL PHTHALATE	mg/kg	370	1500	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORANTHENE	mg/kg	26	3200	8800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORENE	mg/kg	150	3,000	8,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBENZENE	mg/kg	0.1	0.96	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBUTADIENE	mg/kg	0.9	10	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROCYCLOPENTADIENE	mg/kg	5	91	1300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROETHANE	mg/kg	0.1	0.56	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INDENO (1,2,3-CD) PYRENE	mg/kg	0.029	2200	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ISOPHORONE	mg/kg	10	1.9	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NAPTHALENE	mg/kg	10	25	4400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITROBENZENE	mg/kg	7.3	3.2	440	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITROSODIPHENYLAMINE	mg/kg	13	20	3700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-NITROSO-DI-N-PROPYLAMINE	mg/kg	0.0094	0.0013	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENTACHLOROPHENOL	mg/kg	0.1	5	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PHENANTHRENE	mg/kg	110	10,000	66,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PHENOL	mg/kg	200	33	66,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PYRENE	mg/kg	13	2200	6600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PYRIDINE	mg/kg	3.7	0.41	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCS															
04) BROMODICHLOROMETHANE	mg/kg	8	2.7	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05) BROMOFORM	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06) BROMOMETHANE	mg/kg	1	0.54	96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07) N-BUTYLBENZENE	mg/kg	150	950	8,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08) SEC-BUTYLBENZENE	mg/kg	150	350	8,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09) TERT-BUTYLBENZENE	mg/kg	150	270	8,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1) BENZENE	mg/kg	0.5	0.13	57	ND	ND	0.98	ND	ND	0.07	ND	ND	0.09	ND	ND
10) CARBON TETRACHLORIDE	mg/kg	0.5	0.26	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100) 4-CHLOROTOLUENE	mg/kg	10	20	4400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11) CHLOROBENZENE	mg/kg	10	6.1	960	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12) CHLORODIBROMOMETHANE	mg/kg	8	2.5	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13) CHLOROEHTANE	mg/kg	23	5	6200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 1

Robinhill 15H Site Characterization - Soil Sample Analyses (vs. PADEP Act 2 Statewide Health Standards): February 13, 2012

REGULATED SUBSTANCE	Units	SOIL TO GW USED AQUIFERS TDS ≤ 2500: RESIDENTIAL 100 X GW MSC	SOIL TO GW USED AQUIFERS TDS ≤ 2500: RESIDENTIAL GENERIC VALUE	DIRECT CONTACT RESIDENTIAL 0-15 FT.	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7	CS-8	CS-9	CS-10	Background
14) CHLOROFORM	mg/kg	8	2	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15)CHLOROMETHANE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16) 2-CHLOROTOLUENE	mg/kg	10	20	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18) 1,2 DIBROMO-3-CHLOROPROPANE (DBCP)	mg/kg	0.02	0.0092	0.029	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2) BROMOBENZENE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20) DIBROMOMETHANE	mg/kg	37	14	2,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21) 1,2-DICHLOROBENZENE	mg/kg	60	59	3800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22) 1,3-DICHLOROBENZENE	mg/kg	60	61	660	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23) 1,4-DICHLOROBENZENE	mg/kg	7.5	10	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24) DICHLORODIFLUOROMETHANE	mg/kg	100	100	3,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25) 1,1-DICHOLOROETHANE	mg/kg	3.1	0.75	280	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26) 1,2- DICHLOROETHANE	mg/kg	0.5	0.1	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27) 1,1-DICHLOROETHENE	mg/kg	0.7	0.19	3800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28) CIS-1,2-DICHLOROETHENE	mg/kg	7	1.6	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29) TRANS-1,2-DICHLOROETHENE	mg/kg	10	2.3	1100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30) METHYLENE CHLORIDE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31) 1,2-DICHLOROPROPANE	mg/kg	0.5	0.11	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32) 1,3-DICHLOROPROPANE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33) 2,2-DICHLOROPROPANE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34) 1,1-DICHLOROPROPENE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35) CIS 1,3-DICHLOROPROPENE	mg/kg	0.66	0.12	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36) TRANS 1,3 DICHLOROPROPENE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37) ETHYLBENZENE	mg/kg	70	46	10000	ND	ND	0.42	ND	ND	ND	ND	ND	0.07	ND	ND
38) HEXACHLOROBUTADIENE	mg/kg	0.9	10	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39) ISOPROPYLBENZENE	mg/kg	84	600	7,700	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND
40) P-ISOPROPYLTOLUENE	mg/kg	---	---	---	ND	ND	0.32	ND	0.19	ND	ND	ND	0.16	ND	ND
41) NAPTHALENE	mg/kg	10	25	4400	0.09	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.27
42) N-PROPYLBENZENE	mg/kg	150	290	8,800	ND	ND	0.96	ND	ND	ND	ND	ND	ND	ND	ND
43) STYRENE	mg/kg	10	24	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
44) 1,1,1,2-TETRACHLOROETHANE	mg/kg	7	18	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45) 1,1,2,2-THETRACHLOROETHANE	mg/kg	0.08	0.026	7.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46) TETRACHLOROETHENE (PCE)	mg/kg	0.5	0.43	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47) TOLUENE	mg/kg	100	44	10,000	ND	ND	3.17	ND	0.18	0.17	ND	0.21	0.62	0.27	0.11
48) 1,2,3-TRICHLOROBENZENE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49) 1,2,4-TRICHLOROBENZENE	mg/kg	7	27	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50) 1,1,1-TRICHLOROETHANE (TCA)	mg/kg	20	7.2	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
51) 1,1,2-TRICHLOROETHANE	mg/kg	0.5	0.15	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52) TRICHLOROETHENE (TCE)	mg/kg	0.5	0.17	260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53) TRICHLOROFLUOROMETHANE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54) 1,2,3-TRICHLOROPROPANE	mg/kg	18	3.1	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55) 1,2,4 TRIMETHYLBENZENE	mg/kg	1.5	8.4	130	ND	0.09	3.16	ND	0.11	0.15	0.10	0.11	1.34	0.16	0.13
56) 1,3,5-TRIMETHYLBENZENE	mg/kg	1.3	2.3	110	ND	0.10	2.57	ND	ND	0.23	0.12	0.11	1.26	0.13	ND
57) VINYL CHLORIDE	mg/kg	0.2	0.027	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 1

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REGULATED SUBSTANCE	Units	SOIL TO GW USED AQUIFERS		DIRECT CONTACT	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7	CS-8	CS-9	CS-10	Background
		TDS ≤ 2500: RESIDENTIAL		RESIDENTIAL											
		100 X GW MSC	GENERIC VALUE	0-15 FT.											
58) M+P-XYLENE	mg/kg	1,000	990	1,900	ND	0.18	7.00	ND	0.26	0.43	ND	0.36	3.01	0.48	0.20
60) O-XYLENE	mg/kg	1,000	990	1,900	ND	ND	1.38	ND	0.12	0.12	ND	0.08	0.51	0.13	0.13
A05) METHYL TERT BUTYL ETHER (MTBE)	mg/kg	2	0.28	1700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A08) ACETONE	mg/kg	3,300	370	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34
A12) ACRYLONITRILE	mg/kg	0.072	0.01	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A13) ACROLIEN	mg/kg	0.0042	0.00047	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A18) 2-BUTANONE (MEK)	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A32) 2-CHLOROETHYL VINYL ETHER	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A36) HEXANONE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A37) 4-METHYL-2-PENANONE (MIBK)	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A53) 1,2,3-TRIMETHYLBENZENE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Detected Concentration

Concentration Exceeds Act 2 Standard

Table 2

Robinhill 15H Site Characterization - Surface Water Sample Analyses (vs. PADEP Act 2 Statewide Health Standards and Secondary Drinking Water Standards)

REGULATED SUBSTANCE	Units	USED AQUIFERS TDS ≤ 2500		SW-1 (2/13/12)	SW-2 (2/13/12)	SW-3 (2/17/12)	SW-4 (2/17/12)	SW-5 (2/17/12)	SW-6 (2/17/12)	SW-7 (2/17/12)	SW-8 (2/17/12)	SW-9 (2/17/12)	SW-10 (2/17/12)	SW-11 (2/17/12)	SW-12 (2/17/12)	SW-13 (2/17/12)	SW-14 (2/17/12)	Pond 1	Pond 2	SW-Background (2/13/12)
		R	NR																	
METALS																				
ARSENIC	µg/l	10	10			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BARIUM	µg/l	2,000	2,000			7.0	11.0	20.0	10.0	9.0	88.0	24.0	48.0	29.0	26.0	114.0	19.0	23.0	14.0	
CADMIUM	µg/l	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CHROMIUM	µg/l	100	100			ND	ND	ND	ND	ND	ND	ND	ND	6.0	ND	ND	ND	ND	ND	
LEAD	µg/l	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MERCURY	µg/l	2	2			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SELENIUM	µg/l	50	50			ND	14.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SILVER	µg/l	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SVOCS																				
1,2,4-TRICHLOROBENZENE	µg/l	70	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-DICHLOROBENZENE	µg/l	600	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	µg/l	600	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	µg/l	75	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TRICOHLOROPHENOL	µg/l	3,700	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-TRICOHLOROPHENOL	µg/l	37	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DICHLOROPHENOL	µg/l	20	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DIMETHYLPHENOL	µg/l	730	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DINITROTOLUENE	µg/l	2.1	8.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-DINITROTOLUENE	µg/l	37	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-CHLORONAPTHALENE	µg/l	2,900	8,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-CHLOROPHENOL	µg/l	40	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYL-4,6-DINITROPHENOL	µg/l	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METHYLNAPTHALENE	µg/l	150	410	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYLPHENOL	µg/l	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-NITROANILINE	µg/l	11	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-NITROPHENOL	µg/l	290	820	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-DICHLOROBENZIDINE	µg/l	1.5	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-METHYLPHENOL	µg/l	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-NITROANILINE	µg/l	110	310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-BROMOPHENYL-PHENYL ETHER	µg/l	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-METHYLPHENOL	µg/l	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-NITROANILINE	µg/l	33	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-NITROPHENOL	µg/l	60	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPTHENE	µg/l	2,200 G	3,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPTHYLENE	µg/l	2,200 G	6,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANILINE	µg/l	2.1	8.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANTHRACENE	µg/l	66	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AZOBENZENE	µg/l	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZIDINE	µg/l	0.00093	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (A) ANTHRACENE	µg/l	0.29	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (A) PYRENE	µg/l	0.2	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (B) FLUORANTHENE	µg/l	0.29	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (G,H,I) PERYLENE	µg/l	0.26	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (K) FLUORANTHENE	µg/l	0.55	0.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZOIC ACID	µg/l	150,000	410,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZYL ALCOHOL	µg/l	18,000	51,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-ETHYLHEXYL) PTHALATE	µg/l	6	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-CHLOROETHOXY) METHANE	µg/l	110	310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-CHLOROETHYL) ETHER	µg/l	0.15	0.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-CHLOROISOPROPYL) ETHER	µg/l	300	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BUTYLBENZYLPHTHALATE	µg/l	350	1,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CARBAZOLE	µg/l	33	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHRYSENE	µg/l	1.9	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIBENZ (A,H) ANTHRACENE	µg/l	0.029	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2

Robinhill 15H Site Characterization - Surface Water Sample Analyses (vs. PADEP Act 2 Statewide Health Standards and Secondary Drinking Water Standards)

REGULATED SUBSTANCE	Units	USED AQUIFERS TDS ≤ 2500 R	USED AQUIFERS TDS ≤ 2500 NR	SW-1 (2/13/12)	SW-2 (2/13/12)	SW-3 (2/17/12)	SW-4 (2/17/12)	SW-5 (2/17/12)	SW-6 (2/17/12)	SW-7 (2/17/12)	SW-8 (2/17/12)	SW-9 (2/17/12)	SW-10 (2/17/12)	SW-11 (2/17/12)	SW-12 (2/17/12)	SW-13 (2/17/12)	SW-14 (2/17/12)	Pond 1	Pond 2	SW-Background (2/13/12)
DIBENZOFURAN	µg/l	37	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIETHYL PHTHALATE	µg/l	29,000	82,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIMETHYL PHTHALATE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI-N-BUTYL PHTHALATE	µg/l	3,700	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORANTHENE	µg/l	260	260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORENE	µg/l	1,500	1,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBENZENE	µg/l	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBUTADIENE	µg/l	850	2,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROCYCLOPENTADIENE	µg/l	50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INDENO (1,2,3-CD) PYRENE	µg/l	0.29	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ISOPHORONE	µg/l	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NAPTHALENE	µg/l	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITROBENZENE	µg/l	73	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITROSODIPHENYLAMINE	µg/l	130	330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-NITROSO-DI-N-PROPYLAMINE	µg/l	0.094	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENTACHLOROPHENOL	µg/l	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PHENANTHRENE	µg/l	1,100	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PHENOL	µg/l	2,000	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PYRENE	µg/l	130	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PYRIDINE	µg/l	37	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCS																				
03) BROMOCHLOROMETHANE	µg/l	90	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04) BROMOCHLOROMETHANE	µg/l	90	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05) BROMOFORM	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06) BROMOMETHANE	µg/l	10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07) N-BUTYLBENZENE	µg/l	1,500	4,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08) SEC-BUTYLBENZENE	µg/l	1,500	4,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09) TERT-BUTYLBENZENE	µg/l	1,500	4,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1) BENZENE	µg/l	5	5	ND	ND	ND	ND	ND	ND	4,900	ND	ND	ND	11,400	ND	ND	ND	ND	ND	ND
10) CARBON TETRACHLORIDE	µg/l	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100) 4-CHLOROTOLUENE	µg/l	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11) CHLOROBENZENE	µg/l	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12) CHLORODIBROMOMETHANE	µg/l	80	80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13) CHLOROEHTANE	µg/l	230	900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14) CHLOROFORM	µg/l	80	80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15)CHLOROMETHANE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16) 2-CHLOROTOLUENE	µg/l	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18) 1,2 DIBROMO-3-CHLOROPROPANE (DBCP	µg/l	0.2	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2) BROMOBENZENE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20) DIBROMOMETHANE	µg/l	370	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21) 1,2-DICHLOROBENZENE	µg/l	600	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22) 1,3-DICHLOROBENZENE	µg/l	600	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23) 1,4-DICHLOROBENZENE	µg/l	75	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24) DICHLORODIFLUOROMETHANE	µg/l	1,00	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25) 1,1-DICHOLOROETHANE	µg/l	31	160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26) 1,2- DICHLOROETHANE	µg/l	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2

Robinhill 15H Site Characterization - Surface Water Sample Analyses (vs. PADEP Act 2 Statewide Health Standards and Secondary Drinking Water Standards)

REGULATED SUBSTANCE	Units	USED AQUIFERS TDS ≤ 2500		SW-1 (2/13/12)	SW-2 (2/13/12)	SW-3 (2/17/12)	SW-4 (2/17/12)	SW-5 (2/17/12)	SW-6 (2/17/12)	SW-7 (2/17/12)	SW-8 (2/17/12)	SW-9 (2/17/12)	SW-10 (2/17/12)	SW-11 (2/17/12)	SW-12 (2/17/12)	SW-13 (2/17/12)	SW-14 (2/17/12)	Pond 1	Pond 2	SW-Background (2/13/12)
		R	NR																	
27) 1,1-DICHLOROETHENE	µg/l	7	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28) CIS-1,2-DICHLOROETHENE	µg/l	70	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29) TRANS-1,2-DICHLOROETHENE	µg/l	100 M	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30) METHYLENE CHLORIDE	µg/l	30 H	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31) 1,2-DICHLOROPROPANE	µg/l	5 M	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32) 1,3-DICHLOROPROPANE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33) 2,2-DICHLOROPROPANE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34) 1,1-DICHLOROPROPENE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35) CIS 1,3-DICHLOROPROPENE	µg/l	6.6	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36) TRANS 1,3 DICHLOROPROPENE	µg/l	6.6	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37) ETHYLBENZENE	µg/l	700	700	ND	ND	ND	ND	ND	ND	2,360	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38) HEXACHLOROBUTADIENE	µg/l	8.5	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39) ISOPROPYLBENZENE	µg/l	840	3,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40) P-ISOPROPYLTOLUENE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41) NAPTHALENE	µg/l	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42) N-PROPYLBENZENE	µg/l	1,500	4,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43) STYRENE	µg/l	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
44) 1,1,1,2-TETRACHLOROETHANE	µg/l	70	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45) 1,1,2,2-THETRACHLOROETHANE	µg/l	0.84	7.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46) TETRACHLOROETHANE (PCE)	µg/l	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47) TOLUENE	µg/l	1,000	1,000	ND	ND	ND	ND	ND	ND	14,850	ND	2,030	ND	ND	ND	ND	ND	ND	ND	ND
48) 1,2,3-TRICHLOROBENZENE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49) 1,2,4-TRICHLOROBENZENE	µg/l	70	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50) 1,1,1-TRICHLOROETHANE (TCA)	µg/l	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
51) 1,1,2-TRICHLOROETHANE	µg/l	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52) TRICHLOROETHENE	µg/l	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53) TRICHLOROFLUOROMETHANE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54) 1,2,3-TRICHLOROPROPANE	µg/l	40	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55) 1,2,4 TRIMETHYLBENZENE	µg/l	13	53	ND	ND	ND	ND	ND	ND	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56) 1,3,5-TRIMETHYLBENZENE	µg/l	5	5	ND	ND	ND	ND	ND	ND	6,110	ND	ND	ND	ND	ND	1,660	ND	ND	ND	ND
57) VINYL CHLORIDE	µg/l	2	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58) M+P-XYLENE	µg/l	10,000	10,000	ND	ND	ND	ND	ND	ND	23,340	ND	ND	ND	ND	ND	2,530	ND	ND	ND	ND
60) O-XYLENE	µg/l	10,000	10,000	ND	ND	ND	ND	ND	ND	5,470	ND	ND	ND	ND	ND	2,140	ND	ND	ND	ND
A05) METHYL TERT BUTYL ETHER (MTBE)	µg/l	20	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A08) ACETONE	µg/l	33,000	92,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,440	2,400	ND	ND	ND	ND	ND
A12) ACRYLONITRILE	µg/l	0.72	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A13) ACROLIEN	µg/l	0.042	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A18) 2-BUTANONE (MEK)	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,260	ND	ND	ND	ND	ND	ND
A32) 2-CHLOROETHYL VINYL ETHER	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A36) HEXANONE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A37) 4-METHYL-2-PENANONE (MIBK)	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A53) 1,2,3-TRIMETHYLBENZENE	µg/l	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TICS																				
BUTANE	µg/L	—	—	ND	ND														ND	ND
DECANE	µg/L	—	—	ND	ND														ND	ND
UNDECANE	µg/L	—	—	ND	ND														ND	ND
DODECANE	µg/L	—	—	ND	ND														ND	ND

* Secondary Drinking Water Standard

Detected Concentration

Concentration Exceeds Act 2 Standard

Table 3

Robinhill 15H Site Characterization - Soil Sample Analyses (vs. PADEP Act 2 Statewide Health Standards): February 13, 2012 - February 15, 2012

REGULATED SUBSTANCE	Units	SOIL TO GW USED AQUIFERS TDS ≤ 2500: RESIDENTIAL 100 X GW MSC	SOIL TO GW USED AQUIFERS TDS ≤ 2500: RESIDENTIAL GENERIC VALUE	DIRECT CONTACT RESIDENTIAL 0-15 FT.	GP-3 (comp.)	GP-4 (4' - 8')	GP-5 (1.5' - 2.0')	GP-6 (4' - 8')	GP-7 (12' - 16')	GP-8 (12' - 16')	GP-9 (4' - 8')	GP-10 (12' -16')	GP-11 (12' -16')	GP-15 (4' - 8')	GP-16 (12' -16')	GP-17 (comp.)	GP-20 (5' -10.5')	GP-21 (8' - 12')	GP-22 (4' - 8')	GP-25 (12' -16')	GP-26 (12' -16')	GP-27 (8' - 12')	Background
PERCENT TOTAL SOLIDS	%	—	—	—	85.22	94.67	71.58	94.39	88.92	89.64	75.92	85.58	74.77	78.73	76.03	93.02	90.73	81.90	83.78	85.88	89.12	86.51	82.06
SVOCS																							
1,2,4-TRICHLOROBENZENE	mg/kg	7	27	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	mg/kg	60	61	860	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TRICOHLOROPHENOL	mg/kg	370	2,300	22,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-TRICOHLOROPHENOL	mg/kg	3.7	11	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DICHLOROPHENOL	mg/kg	2	1	660	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DIMETHYLPHENOL	mg/kg	73	32	4,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DINITROPHENOL	mg/kg	7.3	0.63	440	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-DINITROTOLUENE	mg/kg	0.21	0.05	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-DINITROTOLUENE	mg/kg	3.7	1.1	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-CHLORONAPTHALENE	mg/kg	290	6,200	18,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-CHLOROPHENOL	mg/kg	4	4.4	1100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYL-4,6-DINITROPHENOL	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYLNAPTHALENE	mg/kg	15	600	880	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYLPHENOL	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-NITROANILINE	mg/kg	1.1	0.17	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-NITROPHENOL	mg/kg	29	5.9	1800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-DICHLOROBENZIDINE	mg/kg	0.15	8.3	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-METHYLPHENOL	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-NITROANILINE	mg/kg	11	2	660	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-BROMOPHENYL-PHENYL ETHER	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-CHLORO-3-METHYLPHENOL	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-CHLOROANILINE	mg/kg	0.33	0.42	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4 CHLOROPHENYL-PHENYL ETHER	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-METHYLPHENOL	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-NITROANILINE	mg/kg	3.3	0.49	880	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-NITROPHENOL	mg/kg	6	4.1	1800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPTHENE	mg/kg	220	2,700	13,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPTHYLENE	mg/kg	220	2,500	13,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANILINE	mg/kg	0.21	0.12	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANTHRACENE	mg/kg	6.5	350	66000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AZOBENZENE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZIDINE	mg/kg	0.000093	0.12	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (A) ANTHRACENE	mg/kg	0.029	25	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (A) PYRENE	mg/kg	0.02	46	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (B) FLUORANTHENE	mg/kg	0.0.29	40	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (G,H,I) PERYLENE	mg/kg	0.026	180	13000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (K) FLUORANTHENE	mg/kg	0.055	610	57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZOIC ACID	mg/kg	15,000	2,900	190,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BENZYL ALCOHOL	mg/kg	1,800	650	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-ETHYLHEXYL) PTHALATE	mg/kg	0.8	130	1300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-CHLOROETHOXY) METHANE	mg/kg	11	2.9	660	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-CHLOROETHYL) ETHER	mg/kg	0.015	0.0045	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIS (2-CHLOROISOPROPYL) ETHER	mg/kg	30	8	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BUTYLBENZYLPHTHALATE	mg/kg	35	3,000	9,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CARBAZOLE	mg/kg	3.3	21	900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHRYSENE	mg/kg	0.19	230	570	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIBENZ (A,H) ANTHRACENE	mg/kg	0.0029	13	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIBENZOFURAN	mg/kg	3.7	95	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIETHYL PHTHALATE	mg/kg	2,900	910	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DIMETHYL PHTHALATE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI-N-BUTYL PHTHALATE	mg/kg	370	1600	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE	mg/kg	—	—	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORANTHENE	mg/kg	26	3200	8800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORENE	mg/kg	150	3,000	8,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBENZENE	mg/kg	0.1	0.96	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBUTADIENE	mg/kg	0.9	10	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROCYCLOPENTADIENE	mg/kg	5	91	1300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROETHANE	mg/kg	0.1	0.56	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Robinhill 15H Site Characterization - Soil Sample Analyses (vs. PADEP Act 2 Statewide Health Standards): February 13, 2012 - February 15, 2012

REGULATED SUBSTANCE	Units	SOIL TO GW USED AQUIFERS		DIRECT CONTACT	GP-3 (comp.)	GP-4 (4' - 8')	GP-5 (1.5' - 2.0')	GP-6 (4' - 8')	GP-7 (12' - 16')	GP-8 (12' - 16')	GP-9 (4' - 8')	GP-10 (12' -16')	GP-11 (12' -16')	GP-15 (4' - 8')	GP-16 (12' -16')	GP-17 (comp.)	GP-20 (5' - 10.5')	GP-21 (8' - 12')	GP-22 (4' - 8')	GP-25 (12' -16')	GP-26 (12' -16')	GP-27 (8' - 12')	Background
		TDS ≤ 2500: RESIDENTIAL		RESIDENTIAL																			
		100 X GW MSC	GENERIC VALUE	0-15 FT.																			
INDENO (1,2,3-CD) PYRENE	mg/kg	0.029	2200	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ISOPHORONE	mg/kg	10	1.9	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NAPTHALENE	mg/kg	10	25	4400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITROBENZENE	mg/kg	7.3	3.2	440	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NITROSODIPHENYLAMINE	mg/kg	13	20	3700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-NITROSO-DI-N-PROPYLAMINE	mg/kg	0.0094	0.0013	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENTACHLOROPHENOL	mg/kg	0.1	5	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PHENANTHRENE	mg/kg	110	10,000	66,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PHENOL	mg/kg	200	33	66,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PYRENE	mg/kg	13	2200	6600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PYRIDINE	mg/kg	3.7	0.41	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCS																							
04) BROMODICHLOROMETHANE	mg/kg	8	2.7	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05) BROMOFORM	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06) BROMOMETHANE	mg/kg	1	0.54	96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07) N-BUTYLBENZENE	mg/kg	150	950	8,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08) SEC-BUTYLBENZENE	mg/kg	150	350	8,800	ND	ND	ND	ND	ND	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09) TERT-BUTYLBENZENE	mg/kg	150	270	8,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1) BENZENE	mg/kg	0.5	0.13	57	ND	ND	ND	ND	0.25	0.27	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10) CARBON TETRACHLORIDE	mg/kg	0.5	0.26	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100) 4-CHLOROTOLUENE	mg/kg	10	20	4400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11) CHLOROBENZENE	mg/kg	10	6.1	960	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12) CHLORODIBROMOMETHANE	mg/kg	8	2.5	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13) CHLOROETHANE	mg/kg	23	5	6200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14) CHLOROFORM	mg/kg	8	2	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15)CHLOROMETHANE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16) 2-CHLOROTOLUENE	mg/kg	10	20	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18) 1,2 DIBROMO-3-CHLOROPROPANE (DBCP)	mg/kg	0.02	0.0092	0.029	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2) BROMOBENZENE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20) DIBROMOMETHANE	mg/kg	37	14	2,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21) 1,2-DICHLOROBENZENE	mg/kg	60	59	3800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22) 1,3-DICHLOROBENZENE	mg/kg	60	61	660	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23) 1,4-DICHLOROBENZENE	mg/kg	7.5	10	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24) DICHLORODIFLUOROMETHANE	mg/kg	100	100	3,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25) 1,1-DICHLOROETHANE	mg/kg	3.1	0.75	280	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26) 1,2- DICHLOROETHANE	mg/kg	0.5	0.1	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27) 1,1-DICHLOROETHENE	mg/kg	0.7	0.19	3800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28) CIS-1,2-DICHLOROETHENE	mg/kg	7	1.6	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29) TRANS-1,2-DICHLOROETHENE	mg/kg	10	2.3	1100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30) METHYLENE CHLORIDE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31) 1,2-DICHLOROPROPANE	mg/kg	0.5	0.11	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32) 1,3-DICHLOROPROPANE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33) 2,2-DICHLOROPROPANE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34) 1,1-DICHLOROPROPENE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35) CIS 1,3-DICHLOROPROPENE	mg/kg	0.66	0.12	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36) TRANS 1,3 DICHLOROPROPENE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37) ETHYLBENZENE	mg/kg	70	46	10000	ND	ND	ND	ND	0.74	0.49	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38) HEXACHLOROBUTADIENE	mg/kg	0.9	10	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39) ISOPROPYLBENZENE	mg/kg	84	600	7,700	ND	ND	ND	ND	0.27	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40) P-ISOPROPYLTOLUENE	mg/kg	---	---	---	ND	ND	ND	ND	0.36	0.16	ND	ND	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
41) NAPTHALENE	mg/kg	10	25	4400	ND	ND	ND	ND	ND	ND	0.22	ND	ND	0.10	0.14	ND	0.12	ND	ND	ND	ND	ND	0.27
42) N-PROPYLBENZENE	mg/kg	150	290	8,800	ND	ND	ND	ND	0.37	0.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43) STYRENE	mg/kg	10	24	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
44) 1,1,1,2-TETRACHLOROETHANE	mg/kg	7	18	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45) 1,1,2,2-THETRACHLOROETHANE	mg/kg	0.08	0.026	7.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46) TETRACHLOROETHENE (PCE)	mg/kg	0.5	0.43	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47) TOLUENE	mg/kg	100	44	10,000	ND	ND	0.06	ND	3.21	2.92	0.29	0.15	0.86	0.21	ND	ND	ND	ND	ND	ND	ND	ND	0.11
48) 1,2,3-TRICHLOROBENZENE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49) 1,2,4-TRICHLOROBENZENE	mg/kg	7	27	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50) 1,1,1-TRICHLOROETHANE (TCA)	mg/kg	20	7.2	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
51) 1,1,2-TRICHLOROETHANE	mg/kg	0.5	0.15	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
52) TRICHLOROETHENE (TCE)	mg/kg	0.5	0.17	260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3

Robinhill 15H Site Characterization - Soil Sample Analyses (vs. PADEP Act 2 Statewide Health Standards): February 13, 2012 - February 15, 2012

REGULATED SUBSTANCE	Units	SOIL TO GW USED AQUIFERS TDS ≤ 2500: RESIDENTIAL		DIRECT CONTACT RESIDENTIAL	GP-3 (comp.)	GP-4 (4' - 8')	GP-5 (1.5' - 2.0')	GP-6 (4' - 8')	GP-7 (12' - 16')	GP-8 (12' - 16')	GP-9 (4' - 8')	GP-10 (12' -16')	GP-11 (12' -16')	GP-15 (4' - 8')	GP-16 (12' -16')	GP-17 (comp.)	GP-20 (5' - 10.5')	GP-21 (8' - 12')	GP-22 (4' - 8')	GP-25 (12' -16')	GP-26 (12' -16')	GP-27 (8' - 12')	Background
		100 X GW MSC	GENERIC VALUE	0-15 FT.																			
53) TRICHLOROFLUOROMETHANE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54) 1,2,3-TRICHLOROPROPANE	mg/kg	18	3.1	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55) 1,2,4 TRIMETHYLBENZENE	mg/kg	1.5	8.4	130	ND	ND	ND	ND	3.93	1.79	0.12	0.09	0.51	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND
56) 1,3,5-TRIMETHYLBENZENE	mg/kg	1.3	2.3	110	ND	ND	ND	ND	3.45	1.64	ND	0.08	0.43	0.09	ND	ND	ND	ND	ND	ND	0.05	ND	0.13
57) VINYL CHLORIDE	mg/kg	0.2	0.027	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND
58) M-P-XYLENE	mg/kg	1,000	990	1,900	ND	ND	ND	ND	8.56	5.42	0.39	0.22	1.38	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND
60) O-XYLENE	mg/kg	1,000	990	1,900	ND	ND	ND	ND	1.57	0.97	0.15	ND	0.23	0.10	ND	ND	0.08	ND	ND	ND	ND	ND	0.20
A05) METHYL TERT BUTYL ETHER (MTBE)	mg/kg	2	0.28	1700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13
A08) ACETONE	mg/kg	3,300	370	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A12) ACRYLONITRILE	mg/kg	0.072	0.01	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34
A13) ACROLIEN	mg/kg	0.0042	0.00047	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A18) 2-BUTANONE (MEK)	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A32) 2-CHLOROETHYL VINYL ETHER	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A36) HEXANONE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A37) 4-METHYL-2-PENANONE (MIBK)	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A53) 1,2,3-TRIMETHYLBENZENE	mg/kg	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Detected Concentration

Concentration Exceeds Act 2 Standard

ROBINHILL #18HA
ROBINHILL #15HB
N
Chevron
AMBU
Robinhill Site
Washington County, PA
CONFIDENTIAL

Material Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

NATURAL GAS CONDENSATE - Appalachia

Company Identification
Appalachian/Michigan Business Unit
Chevron North America Exploration and Production Company (a division of Chevron U.S.A. Inc.)
1550 Coraopolis Heights Road
Moon Township, PA 15108
United States of America

Transportation Emergency Response
CHEMTREC: (800) 424-9300 or (703) 527-3887
Health Emergency
Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623
Product Information
Product Information: (412) 865-3408

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Natural gas condensates	64741-47-5	100 %wt/wt
Hexane	110-54-3	5 - 7 %wt/wt
Toluene (methylbenzene)	108-88-3	2 - 5 %wt/wt
Xylene	1330-20-7	2 - 5 %wt/wt
Ethylbenzene	100-41-4	< 0.5 %wt/wt
Benzene	71-43-2	< 0.1 %wt/wt

SECTION 3 HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW

- FLAMMABLE LIQUID AND VAPOR
- CAUSES EYE IRRITATION
- CAUSES SKIN IRRITATION
- MAY CAUSE RESPIRATORY TRACT IRRITATION IF INHALED
- MAY CAUSE LUNG DAMAGE IF SWALLOWED
- MAY CAUSE DIZZINESS, DROWSINESS AND REDUCED ALERTNESS
- CONTAINS MATERIAL THAT MAY CAUSE HARM TO THE UNBORN CHILD
- CONTAINS MATERIAL THAT MAY CAUSE GENETIC DEFECTS
- CONTAINS MATERIAL THAT MAY CAUSE DAMAGE TO:

- NERVOUS SYSTEM
- HARMFUL TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

****

IMMEDIATE HEALTH EFFECTS

Eye: Contact with the eyes causes irritation. Symptoms may include pain, tearing, reddening, swelling and impaired vision.

Skin: Contact with the skin causes irritation. Skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. May be irritating to mouth, throat, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.

Inhalation: The vapor or fumes from this material may cause respiratory irritation. Symptoms of respiratory irritation may include coughing and difficulty breathing. Excessive or prolonged breathing of this material may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death. If this material is heated, fumes may be unpleasant and produce nausea and irritation of the eye and upper respiratory tract.

DELAYED OR OTHER HEALTH EFFECTS:

Reproduction and Birth Defects: Contains material that may cause harm to the unborn child if inhaled above the recommended exposure limit.

Cancer: Contains benzene, which has been classified as a carcinogen by the National Toxicology Program (NTP) and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains ethylbenzene which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Genetic Toxicity: Contains material that may cause heritable genetic damage based on animal data.

Target Organs: Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit: Nervous System

See Section 11 for additional information. Risk depends on duration and level of exposure.

SECTION 4 FIRST AID MEASURES

Eye: Flush eyes with water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get medical attention if irritation persists.

Skin: Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, apply a waterless hand cleaner, mineral oil, or petroleum jelly. Then wash with soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue or if any other symptoms develop.

Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

SECTION 5 FIRE FIGHTING MEASURES

See Section 7 for proper handling and storage.

FIRE CLASSIFICATION:
OSHA Classification (29 CFR 1910.1200): Flammable liquid.

NFPA RATINGS: Health: 1 Flammability: 4 Reactivity: 0

FLAMMABLE PROPERTIES:
Flashpoint: -21 °C (-6 °F) (Estimated)
Autoignition: No data available
Flammability (Explosive) Limits (% by volume in air): Lower: No data available Upper: No data available

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO_2) to extinguish flames. Do not use water spray or a direct stream of water.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures: This material presents a fire hazard. Liquid quickly evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above -10C (15F). Do not get in eyes, on skin, or on clothing. Do not breathe vapor or fumes from heated material. Do not taste or swallow. Do not breathe vapor or fumes. Wash thoroughly after handling.
General Handling Information: Avoid contaminating soil or releasing this material into sewage and

drainage systems and bodies of water.
Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.
General Storage Information: DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces . USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits. Use explosion-proof ventilation equipment.

PERSONAL PROTECTIVE EQUIPMENT
Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.
Skin Protection: Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include: Nitrile Rubber, Silver Shield, Viton.
Respiratory Protection: Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors.
Determine if airborne concentrations of Benzene and Oil Mist are below their respective occupational exposure limits for jurisdication of use. If airborne concentrations are not below the acceptable concentration wear a NIOSH approved respirator in consideration of actual airborne concentrations. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Benzene	ACGIH	.5 ppm (weight)	2.5 ppm (weight)	--	Skin A1 Skin
Benzene	CVX	1 ppm (weight)	5 ppm (weight)	--	--
Benzene	OSHA SRS	1 ppm	5 ppm	--	--

		(weight)	(weight)		
Benzene	OSHA Z-2	10 ppm (weight)	--	25 ppm (weight)	--
Ethylbenzene	ACGIH	100 ppm (weight)	125 ppm (weight)	--	A3
Ethylbenzene	OSHA Z-1	435 mg/m3	--	--	--
Hexane	ACGIH	50 ppm (weight)	--	--	Skin
Hexane	OSHA Z-1	1800 mg/m3	--	--	--
Toluene (methylbenzene)	ACGIH	50 ppm (weight)	--	--	Skin A4
Toluene (methylbenzene)	OSHA Z-2	200 ppm (weight)	--	300 ppm (weight)	--
Xylene	ACGIH	100 ppm (weight)	150 ppm (weight)	--	A4
Xylene	OSHA Z-1	435 mg/m3	--	--	--

Consult local authorities for appropriate values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Colorless
Physical State: Liquid
Odor: Hydrocarbon odor
pH: Not Applicable
Vapor Pressure: 2.5 psia (Estimated)
Vapor Density (Air = 1): No data available
Boiling Point: No data available
Solubility: Insoluble in water.
Freezing Point: No data available
Specific Gravity: 0.8088 @ 15°C (59°F) (Estimated)
Density: 0.8122 kg/l @ 15°C (59°F)
Viscosity: <1.07 cSt @ 21.1°C (70°F) (Estimated)
Evaporation Rate: No data available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid: Avoid contact with heat, sparks, fire and oxidizing agents
Incompatibility With Other Materials: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products: None known (None expected)
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS
Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.
Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.