

WELLINGTON OPERATING COMPANY
WELL 20-3 LABORATORY SUMMARY

		Sample Location																																	
Concentration		Well 20-3 Background	Well 20-3 Pad Surface	Well 20-3 Well Head @ 8' Excavation Bottom	Well 20-3 Test @ 10' Excavation Bottom @ Concrete Floor	FL East End	Well 20-3 S Wall @ 8'	Well 20-3 W Wall @ 8'	Well 20-3 N Wall @ 8'	Well 20-3 E Wall @ 8'	Well 20-3 WH FL @ 7'	PACE Well 20-3 S Wall @ 1'	PACE Well 20-3 S Silica Gel	ALS Well 20-3 S Wall @ 1'	PACE Well 20-3 W Wall @ 1'	PACE Well 20-3 W Silica Gel	ALS Well 20-3 W Wall @ 1'	PACE Well 20-3 N Wall @ 1'	ALS Well 20-3 N Wall @ 1'	PACE Well 20-3 N Silica Gel	ALS Well 20-3 E Wall @ 1'	PACE Well 20-3 E Wall @ 1'	PACE Well 20-3 E Silica Gel	ALS Well 20-3 E Wall @ 1'	PACE Well 20-3 Stockpile Pad East	PACE Well 20-3 Stockpile Silica Gel	ALS Well 20-3 Stockpile Pad East	PACE Well 20-3 Stockpile Pad West	PACE Well 20-3 Stockpile Silica Gel	ALS Well 20-3 Stockpile Pad West	PACE Well 20-3 Background @ 1' Silica Gel	PACE Well 20-3 Background @ 1' Silica Gel	PACE Well 20-3 Background @ 8' Silica Gel	PACE Well 20-3 Background @ 8' Silica Gel	
Contaminant of Concern	Sample Date	4/26/2023	4/26/2023	4/26/2023	1/4/2024		2/23/2024	2/23/2024	2/23/2024	2/23/2024	2/23/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/11/2024	3/25/2024	3/25/2024	3/25/2024	3/25/2024
Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	500 mg/kg	72.2	42.9	9021.3	196.2	ND	ND	173.7	19.9	97.4	46.5	22.9	17.6	6.5	2424	1070	570	195	178	70	603	510	670	803	475	471	1364	840	14	38.9	22.5	12.4	< 10.8		
Motor Oil Range (C24-C36)		57.4	42.9	4760	98.4	< 10.7	< 10.7	108	19.9	63.6	35.3	22.9	18.2	5.5	1850	1140	500	195	156	54	603	549	580	540	398	400	890	688	11	38.9	25.6	12.4	< 10.8		
TPH-DRO (C10-C28)		14.8	< 10.9	4240	94.6	< 10.7	< 10.7	65	< 10.9	33.8	11.2	< 10.5	< 10.5	1	574	352	70	< 108	72.9	16	< 215	173	90	263	193	71	474	354	3	< 10.9	< 10.8	< 10.8	< 10.8		
Gasoline Range Organics (C6-C10)		< 2.9	< 3.3	21.3	3.2	< 1.8	< 2.0	< 2.3	< 2.2	< 2.5	< 1.9	< 1.7		N.A.	< 2.5		N.A.	< 2.2		N.A.	< 2.2		N.A.	< 3.6		N.A.	< 3.7		N.A.	< 2.9	< 2.8				
Soils and Groundwater - liquid hydrocarbons including condensate and oil	below visual detection limits	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	N.A.	YES		N.A.	YES		N.A.	YES		N.A.	YES		N.A.	YES		N.A.	YES		YES			
Electrical conductivity (EC) (by saturated paste method)1,2	< 4mmhos/cm	0.694	0.806	0.381	0.153	0.527	0.241	0.549	0.419	0.637	0.245	0.924		N.A.	0.623		N.A.	2.92		N.A.	0.489		N.A.	1.57		N.A.	0.827		N.A.	3.1		1.58			
Sodium adsorption ratio (SAR) (by saturated paste method)1,2,3	< 6	0.141	0.155	0.193	2.74	0.172	1.14	2.37	1.42	2.19	0.924	2.27		N.A.	1.07		N.A.	0.434		N.A.	3.01		N.A.	0.32		N.A.	0.218		N.A.	0.62		0.047			
pH (by saturated paste method)1,2	6-8.3	7.55	7.70	7.61	8.69	8.12	8.36	8.39	8.26	8.13	8.34	7.75		N.A.	7.77		N.A.	7.52		N.A.	8.34		N.A.	7.45		N.A.	7.51		N.A.	7.09		7.43			
boron (hot water soluble soil extract)1,2,3	2 mg/l	1.95	1.82	1.17	0.237	0.273	0.296	0.586	0.589	0.573	0.323	0.321		N.A.	0.674		N.A.	0.736		N.A.	0.523		N.A.	1.6		N.A.	1.19		N.A.	0.55		0.4			
Residential Soil Screening Level Concentrations (mg/kg)7	Protection of Groundwater Soil Screening Level Concentrations (mg/kg) Risk Based (R) and MCL Based (M)7,8																																		
benzene	1.2	0.0026 (M)	< 0.128	< 0.125	< 0.0108	< 0.0133	< 0.0082	< 0.0074	< 0.0111	< 0.0129	< 0.0092	< 0.0086	< 0.0073	N.A.			N.A.	< 0.0098		N.A.	< 0.0105		N.A.	< 0.0147		N.A.	< 0.0159		N.A.	< 0.0105		< 0.0084			
toluene	490	0.69 (M)	< 0.0319	< 0.0312	< 0.027	< 0.0332	< 0.0205	< 0.0186	< 0.0277	< 0.0323	< 0.0231	< 0.0183		N.A.			N.A.	< 0.0245		N.A.	< 0.0263		N.A.	< 0.0367		N.A.	< 0.0396		N.A.	< 0.0262		< 0.021			
ethylbenzene	5.8	0.78 (M)	< 0.0319	< 0.0312	< 0.027	< 0.0332	< 0.0205	< 0.0186	< 0.0277	< 0.0323	< 0.0231	< 0.0215	< 0.0183	N.A.			N.A.	< 0.0245		N.A.	< 0.0263		N.A.	< 0.0367		N.A.	< 0.0396		N.A.	< 0.0262		< 0.021			
xylene (sum of o-, m- and p- isomers = total xylenes)	58	9.9 (M)	< 0.0958	< 0.0935	< 0.081	< 0.0996	< 0.0615	< 0.0557	< 0.083	< 0.097	< 0.0693	< 0.0645	< 0.0548	N.A.			N.A.	< 0.0734		N.A.	< 0.0789		N.A.	< 0.110		N.A.	< 0.119		N.A.	< 0.0785		< 0.063			
1,2,4-trimethylbenzene	30	0.0081 (R)	< 0.0319	< 0.0312	< 0.027	< 0.0332	< 0.0205	< 0.0186	< 0.0277	< 0.0323	< 0.0231	< 0.0215	< 0.0183	N.A.			N.A.	< 0.0245		N.A.	< 0.0263		N.A.	< 0.0367		N.A.	< 0.0396		N.A.	< 0.0262		< 0.021			
1,3,5-trimethylbenzene	27	0.0087 (R)	< 0.0319	< 0.0312	< 0.027	< 0.0332	< 0.0205	< 0.0186	< 0.0277	< 0.0323	< 0.0231	< 0.0215	< 0.0183	N.A.			N.A.	< 0.0245		N.A.	< 0.0263		N.A.	< 0.0367		N.A.	< 0.0396		N.A.	< 0.0262		< 0.021			
acenaphthene	360	0.55 (R)	< 0.108	< 0.109	0.564	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	< 0.0005			N.A.	< 0.0005	< 0.0107	< 0.0005	< 0.0213	< 0.050	< 0.0115	< 0.0049	< 0.0119	< 0.0049	< 0.0108	< 0.0049	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
anthracene	1800	5.8 (R)	< 0.108	< 0.109	< 0.0552	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	0.017			N.A.	< 0.0107	0.0076	< 0.0107	0.0029	< 0.0213	< 0.050	< 0.0115	< 0.0049	< 0.0119	< 0.0049	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
benz(a)anthracene	1.1	0.011 (R)	< 0.108	< 0.109	< 0.0552	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	0.011			N.A.	< 0.0107	0.016	< 0.0107	< 0.0116	< 0.0213	< 0.160	< 0.0115	< 0.0049	< 0.0119	< 0.0049	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
benzo(b)fluoranthene	1.1	0.3 (R)	< 0.108	< 0.109	0.1910	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	0.0079			N.A.	< 0.0107	0.012	< 0.0107	< 0.0012	< 0.0213	< 0.120	< 0.0115	< 0.0049	< 0.0119	< 0.0049	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
benzo(k)fluoranthene	11	2.9 (R)	< 0.108	< 0.109	< 0.0552	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	0.0032			N.A.	< 0.0107	0.009	< 0.0107	< 0.0009	< 0.0213	< 0.090	< 0.0115	< 0.0089	< 0.0119	< 0.0089	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
benzo(a)pyrene	0.110	< 0.108	< 0.109	< 0.0552	< 0.0114	< 0.0106	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	< 0.00069			N.A.	< 0.0107	0.010	< 0.0107	< 0.0007	< 0.0213	< 0.070	< 0.0115	< 0.0069	< 0.0119	< 0.0069	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
chrysene	0.11	< 0.108	< 0.109	0.687	< 0.0114	< 0.0106	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	0.015			N.A.	< 0.0107	0.008	< 0.0107	< 0.0008	< 0.0213	< 0.080	< 0.0115	< 0.0079	< 0.0119	< 0.0079	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
dibenzo(a,h)anthracene	0.11	0.096 (R)	< 0.108	< 0.109	< 0.0552	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	< 0.0016			N.A.	< 0.0107	0.016	< 0.0107	< 0.0016	< 0.0213	< 0.160	< 0.0115	< 0.160	< 0.0119	< 0.160	< 0.0119	< 0.0016	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
fluoranthene	240	8.9 (R)	< 0.108	< 0.109	< 0.0552	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	0.100			N.A.	< 0.0107	0.067	< 0.0107	0.016	< 0.0213	0.200	< 0.0115	< 0.011	< 0.0119	< 0.011	< 0.0119	0.190	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
fluorene	240	0.54 (R)	< 0.108	< 0.109	1.48	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	0.0054			N.A.	< 0.0107	0.011	< 0.0107	< 0.0011	< 0.0213	< 0.110	< 0.0115	< 0.011	0.0561	< 0.011	< 0.0119	< 0.0011	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
indeno(1,2,3-cd)pyrene	1.1	0.98 (R)	< 0.108	< 0.109	< 0.0552	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	< 0.00079			N.A.	< 0.0107	0.008	< 0.0107	< 0.0008	< 0.0213	< 0.080	< 0.0115	< 0.0079	< 0.0119	< 0.0079	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
1-methylnaphthalene	18	0.006 (R)	< 0.108	< 0.109	4.46	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	N.A.			N.A.	< 0.0107	0.010	< 0.0107	N.A.	< 0.0213	N.A.	< 0.0115	N.A.	0.0566	N.A.	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
2-methylnaphthalene	24	0.019 (R)	< 0.108	< 0.109	0.85	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	N.A.			N.A.	< 0.0107	0.010	< 0.0107	N.A.	< 0.0213	N.A.	< 0.0115	N.A.	0.0526	N.A.	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
naphthalene	2	0.0038 (R)	< 0.108	< 0.109	< 0.0552	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	< 0.0006			N.A.	< 0.0107	0.045	< 0.0107	< 0.0006	< 0.0213	< 0.060	< 0.0115	< 0.0059	< 0.0119	< 0.0059	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
pyrene	180	1.3 (R)	< 0.108	< 0.109	0.355	< 0.0114	< 0.0106	< 0.0106	< 0.0111	< 0.0108	< 0.0109	< 0.0108	< 0.0105	< 0.0006			N.A.	< 0.0107	0.011	< 0.0107	< 0.0011	< 0.0213	0.110	< 0.0115	< 0.0059	0.0157	< 0.0059	0.0157	0.140	< 0.0108	< 0.0108	< 0.0108	< 0.0108		
Metals in Soils 1, 6, 9, 10, 11	Residential Soil Screening Level Concentrations (mg/kg)7	Residential / Protection of Groundwater																																	
arsenic	0.29 (M)	4.1	4.2	3.5	3	3.8	2.8																												