

Annual Summary - Fluoride, Nitrite, Nitrate, and Colour  
(Complete a separate sheet for each input into the Distribution System)

**Water Works Name:** Lucknow Well Supply  
**Well No. (if applicable):** # 4  
**Year:** 2008  
**Serviced Population:** 1100  
**Laboratories Which Performed Analyses:** SGS Lakefield Research  
**Water Works:** 220002663

Month	Fluoride		Treated Water Nitrite			Treated Water Nitrate			THM's		
	No. of Samples Collected	Average Residual mg/L	Maximum Residual mg/L	No. of Samples Collected	Average Nitrite mg/L	Maximum Nitrite mg/L	No. of Treated Samples Collected	Average Nitrate (mg/L)	Maximum Nitrate mg/L	No of Samples	Result ug/l
Jan.	1	1.29	1.29								
Feb.	1	1.76	1.76	1	<0.005	<0.005	1	<0.013	<0.013	1	1.6
Mar.											
Apr.	1	1.69	1.69								
May	1	1.94	1.94	1	<0.005	<0.005	1	<0.013	<0.013	1	2
June											
July	1	1.39	1.39								
August											
Sept				1	<0.005	<0.005	1	<0.013	<0.013	1	5.3
Oct.	1	1.76	1.76								
Nov				1	<0.005	<0.005	1	<0.013	<0.013	1	3.5
Dec											
Total	6			4			4				
Average					#DIV/0!						
Maximum			1.94							0	
ODWQS											

Where nitrate and nitrite are present, the total of the two should not exceed 10 mg/L  
 The maximum acceptable level for THM's is 100 ug/l  
 Fluoride levels above 1.5 mg/L should be reported to the Medical Officer of Health

**Water Works Name:** Lucknow Well Supply  
**Well No. (if applicable):** # 5  
**Year:** 2008  
**Served Population:** 1100  
**Laboratories Which Performed Analyses:** SGS Lakefield Research  
**Water Works:** 220002663

Month	Fluoride		Treated Water Nitrite		Treated Water Nitrate		THM's				
	No. of Samples Collected	Average Residual mg/L	Maximum Residual mg/L	No. of Samples Collected	Average Nitrite mg/L	Maximum Nitrite mg/L	No. of Samples Collected	Average Nitrate (mg/L)	Maximum Nitrate mg/L	No. of Samples	Result ug/l
Jan.	1	1.38	1.38								
Feb.	1	1.70	1.70	1	<0.005	<0.005	1	<0.013	<0.013	1	1.6
Mar.											
Apr.	1	1.6	1.6								
May	1	1.92	1.92	1	<0.005	<0.005	1	<0.013	<0.013	1	2.0
June											
July	1	1.29	1.29								
August											
Sept				1	<0.005	<0.005	1	<0.013	<0.013	1	5.3
Oct.	1	1.65	1.65								
Nov				1	<0.005	<0.005	1	<0.013	<0.013	1	3.5
Dec											
Total	6			4			4				
Average					#DIV/0!						
Maximum			1.92				0				
ODWQS											

Where nitrate and nitrite are present, the total of the two should not exceed 10 mg/L  
 The maximum acceptable level for THM's is 100 ug/l  
 Fluoride levels above 1.5 mg/L should be reported to the Medical Officer of Health

Annual Data Summary - Treated Water Volatile Organic and Inorganic Data  
 (Complete a separate sheet for each input into the Distribution System)  
 Water Works Name: Lucknow Well Supply  
 Well No. (if applicable): # 4 & # 5

Year: 2008  
 1100

Serviced Population  
 Laboratories Which Performer Analyses: SGS Lakefield Research  
 Water Works # 220002663

Parameter	Date (MM/DD/YY)	Analysis		Analysis DW Town Shed (ug/L)	Maximum Allowable Level (ug/L)	Analysis Result # 4 mg/l	Analysis Result # 5 mg/l	Maximum Allowable Level mg/l
		Well # 4 Result (ug/L)	Well # 5 Result (ug/L)					
<b>Schedule 23 &amp; 24</b>								
Antimony	06/06/2006	<0.2	<2		6			
Arsenic	23/06/2008	3.8	5.6		25			
Barium	06/06/2006	283	303		1000			
Boron	"	30	27		5000			
Cadmium	"	0.06	<0.06		5			
Chromium	"	0.4	0.4		50			
Mercury	"	<0.02	<0.02		1			
Sodium	"							
Fluoride	10/09/2007					9.63	9.49	20
Lead	06/02/2008			0.22		1.69	1.74	1.5
Selenium	23/12/2008	<1	<1		10			
Uranium	06/06/2006	0.92	0.71		20			
Benzene	"	<0.37	<0.37		5			
Carbon Tetrachloride	"	<0.26	<0.26		5			
1,2-Dichlorobenzene	"	<0.50	<0.50		200			
1,4-Dichlorobenzene	"	<0.20	<0.20		5			
1,1-Dichloroethylene	"	<0.41	<0.41		14			
1,2-Dichloroethane	"	<0.43	<0.43		5			
Dichloromethane	"	<0.32	<0.32		50			
Monochlorobenzene	"	<0.58	<0.58		80			
Tetrachloroethylene	"	<0.45	<0.45		30			
Trichloroethylene	"	<0.38	<0.38		50			
Vinyl Chloride	"	<0.14	<0.14		2			
Diquat	"	<1	<1		70			
Paraquat	"	<1	<1		10			
Glyphosate	"	<6	<6		280			
Polychlorinated Biphenyls	"	<0.04	<0.04		3			
Benzo(a)pyrene	"	<0.004	<0.004		0.01			
2,4-dichlorophenol	"	<0.15	<0.15		900			
2,4,6-trichlorophenol	"	<0.25	<0.25		5			
2,3,4,5-tetrachlorophenol	"	<0.14	<0.14		100			
Pentachlorophenol	"	<0.15	<0.15		60			
Alachlor	"	<0.11	<0.11		5			
Aldicarb	"	<0.30	<0.30		9			
Aldrin+Dieldrin	"	<0.067	<0.067		0.7			
Aldrin	"	<0.060	<0.060					

Annual Data Summary - Treated Water Volatile Organic and Inorganic Data  
 (Complete a separate sheet for each input into the Distribution System)

Diieldrin	"	<0.067	<0.067				
Atrazine+N-dealkylated metabolites	"	<0.12	<0.12			5	
Atrazine	"	<0.11	<0.11				
De-ethylated atrazine	"	<0.12	<0.12				
Azinphos-methyl	"	<0.21	<0.21			20	
Bendiocarb	"	<0.13	<0.13			40	
Carbaryl	"	<0.16	<0.16			90	
Carbofuran	"	<0.37	<0.37			90	
Chlordane	"	<0.11	<0.11			7	
a-chlordane	"	<0.069	<0.069				
g-chlordane	"	<0.063	<0.063				
Oxychlordane	"	<0.11	<0.11				
Chlorpyrifos	"	<0.18	<0.18			90	
Cyanazine	"	<0.18	<0.18			10	
Diazinon	"	<0.081	<0.081			20	
(DDT)+Metabolites	"	<0.14	<0.14			30	
op-DDT	"	<0.095	<0.095				
pp-DDD	"	<0.098	<0.098				
pp-DDE	"	<0.075	<0.075				
pp-DDT	"	<0.14	<0.14				
Dimethoate	"	<0.12	<0.12			20	
Diuron	"	<0.087	<0.087			150	
Heptachlor-Heptachlor Epoxide	"	<0.11	<0.11			3	
Heptachlor	"	<0.061	<0.061				
Heptachlor epoxide	"	<0.11	<0.11				
Lindane	"	<0.056	<0.056			4	
Malathion	"	<0.091	<0.091			190	
Methoxychlor	"	<0.14	<0.14			900	
Metolachlor	"	<0.092	<0.092			50	
Metribuzin	"	<0.12	<0.12			80	
Parathion	"	<0.18	<0.18			50	
Phorate	"	<0.11	<0.11			2	
Prometryne	"	<0.23	<0.23			1	
Simazine	"	<0.15	<0.15			10	
Temephos	"	<0.31	<0.31			280	
Terbufos	"	<0.12	<0.12			1	
Triallate	"	<0.10	<0.10			230	
Trifluralin	"	<0.12	<0.12			45	
2,4-dichlorophenoxyacetic acid	"	<0.19	<0.19			100	
2,4,5-trichlorophenoxyacetic acid	"	<0.14	<0.14			280	
Bromoxynil	"	<0.094	<0.094			5	
Dicamba	"	<0.17	<0.17			120	
Diclofop-methyl	"	<0.13	<0.13			9	
Dinoseb	"	<0.084	<0.084			10	
Picloram	"	<0.20	<0.20			190	

Lucknow

Total Petroleum Hydrocarbons

Date		Town Shed	Ross St Pumpphouse	MDL
July 29/08	F1 (C6-C10) -water	<100	<100	100
	F2 (C10-C160)-water	<100	<100	100
	F3 (C16-C34)-water	<500	<500	500
	F4 (C34-C50)-water	<500	<500	500
Chromatogram returned to baseline at NC50		Yes	Yes	

Month	Total Coliform			Fecal Coliform / Escherichia Coli			Raw Water Turbidity		
	No. of Samples Collected	No. of Samples >1	No. of Samples Collected	No. of Samples >1	No. of Samples >1	No. of Samples >1 NTU	Average		
	No. of Samples Collected	No. of Samples >1	No. of Samples Collected	No. of Samples >1	No. of Samples >1	No. of Samples >1 NTU	Average		
Jan '08	5	0	5	0	0	0	0.22		
Feb '08	4	0	4	0	0	0	0.20		
Mar '08	4	0	4	0	0	0	0.24		
Apr '08	5	0	5	0	0	0	0.21		
May '08	4	0	4	0	0	0	0.11		
Jun '08	4	0	4	0	0	0	0.57		
Jul '08	5	0	5	0	0	0	0.32		
Aug '08	4	0	4	0	0	0	0.25		
Sep '08	5	0	5	0	0	0	0.35		
Oct '08	4	0	4	0	0	0	0.31		
Nov '08	4	0	4	0	0	0	0.43		
Dec '08	5	0	5	0	0	0	0.21		
Total	53	0	53	0	0	0	0.29		

Water Works Name: Lucknow Well Supply

Well No. (if applicable): Well 4

Year: 2008

Serviced Population: 1100

Laboratories Which Performed Analyses: SGS Lakefield Research

Water Works Number: 220002636

Raw Water

Water Works Name:		Lucknow															
Well No. (if applicable):		Well 4															
Year:		2008															
Serviced Population:		1100															
Laboratories which Performed Analyses:		SGS Lakefield Research															
Treated Water																	
Month	Total Coliform				Fecal Coliform / Escherichia Coli				HPC or MF				BKG				
	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples deteriorating
Jan '08	5	5	0	0	5	5	0	0	5	5	0	0	0	0	0	0	0
Feb '08	4	4	0	0	4	4	0	0	4	4	0	0	0	0	0	0	0
Mar '08	4	4	0	0	4	4	0	0	4	4	0	0	0	0	0	0	0
Apr '08	5	5	0	0	5	5	0	0	5	5	0	0	0	0	0	0	0
May '08	4	4	0	0	4	4	0	0	4	4	0	0	0	0	0	0	0
Jun '08	4	4	0	0	4	4	0	0	4	4	0	0	0	0	0	0	0
Jul '08	5	5	0	0	5	5	0	0	5	5	0	0	0	0	0	0	0
Aug '08	4	4	0	0	4	4	0	0	4	4	0	0	0	0	0	0	0
Sep '08	5	5	0	0	5	5	0	0	5	5	0	0	0	0	0	0	0
Oct '08	4	4	0	0	4	4	0	0	4	4	0	0	0	0	0	0	0
Nov '08	4	4	0	0	4	4	0	0	4	4	0	0	0	0	0	0	0
Dec '08	5	5	0	0	5	5	0	0	5	5	0	0	0	0	0	0	0
Total	53	53	0	0	53	53	0	0	53	53	0	0	0	0	0	0	0
INDICATORS OF UNSAFE DRINKING WATER QUALITY:				INDICATORS OF DETERIORATING DRINKING WATER QUALITY													
If any of the following conditions exist, the drinking water is judged unsafe:				Any of the following conditions indicate a deterioration in drinking water quality:													
1. Escherichia coli and/or fecal coliforms are detected in any distribution sample by any analytical method:				a) total coliforms detected as a single occurrence (but not Escherichia coli or other fecal coliforms);													
2. Total coliforms are detected in consecutive samples from the same site or in multiple samples taken as a single submission from a distribution system.				b) samples contain more than 500 colonies per ml on a heterotrophic plate count analysis;													
				c) samples contain more than 200 background colonies on a total coliform membrane filter analysis;													
				d) Aeromonas spp., Pseudomonas aeruginosa, Staphylococcus aureus, Clostridium spp. Or members of the Fecal Streptococcus (Enterococcus) group are detected.													

Water Works Name:		Lucknow Well Supply						
Well No. (if applicable):		Well 5						
Year:		2007						
Serviced Population		1100						
Laboratories Which Performed Analyses:								
Water Works Number		SGS Lakefield Research						
		220002636						
<b>Raw Water</b>								
Month	Total Coliform			Fecal Coliform / Escherichia Coli			Raw Turbidity	
	No. of Samples Collected	No. of Samples >1	No. of Samples Collected	No. of Samples >1	No. of Samples >1 NTU	No. of Samples >1 NTU	Average NTU	
Jan '08	5	0	5	0	0	0	0.27	
Feb '08	4	0	4	0	0	0	0.30	
Mar '08	4	0	4	0	0	0	0.25	
Apr '08	5	0	5	0	0	0	0.25	
May '08	4	0	4	0	0	0	0.19	
Jun '08	4	0	4	0	0	0	0.64	
Jul '08	5	0	5	0	0	0	0.27	
Aug '08	4	0	4	0	0	0	0.22	
Sep '08	5	0	5	0	0	0	0.29	
Oct '08	4	0	4	0	0	0	0.30	
Nov '08	4	0	4	0	0	0	0.33	
Dec '08	5	0	5	0	0	0	0.20	
<b>Total</b>	<b>53</b>	<b>0</b>	<b>53</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.27</b>	

Water Works Name: Lucknow Well Supply  
 Well No. (if applicable): Well 5  
 Year: 2008  
 Serviced Population: 1100  
 Laboratories which Performed Analyses: SGS Lakefield Research

Month	Total Coliform			Fecal Coliform / Escherichia Coli			HPC or MF			BKG		
	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe" / deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe" / deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe" / deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe" / deteriorating
Jan '08	5	5	0	5	5	0	5	5	0	0	0	0
Feb '08	4	4	0	4	4	0	4	4	0	0	0	0
Mar '08	4	4	0	4	4	0	4	4	0	0	0	0
Apr '08	5	5	0	5	5	0	5	5	0	0	0	0
May '08	4	4	0	4	4	0	4	4	0	0	0	0
Jun '08	4	4	0	4	4	0	4	4	0	0	0	0
Jul '08	5	5	0	5	5	0	5	5	0	0	0	0
Aug '08	4	4	0	4	4	0	4	4	0	0	0	0
Sep '08	5	5	0	5	5	0	5	5	0	0	0	0
Oct '08	4	4	0	4	4	0	4	4	0	0	0	0
Nov '08	4	4	0	4	4	0	4	4	0	0	0	0
Dec '08	5	5	0	5	5	0	5	5	0	0	0	0
Total	53	53	0	53	53	0	53	53	0	0	0	0

INDICATORS OF UNSAFE DRINKING WATER QUALITY:

If any of the following conditions exist, the drinking water is judged unsafe:

1. Escherichia coli and/or fecal coliforms are detected in any distribution sample by any analytical method;
2. Total coliforms are detected in consecutive samples from the same site or in multiple samples taken as a single submission from a distribution system.

INDICATORS OF DETERIORATING DRINKING WATER QUALITY

Any of the following conditions indicate a deterioration in drinking water quality:

- a) total coliforms detected as a single occurrence (but not Escherichia coli or other fecal coliforms);
- b) samples contain more than 500 colonies per ml on a heterotrophic plate count analysis;
- c) samples contain more than 200 background colonies on a total coliform membrane filter analysis;
- d) Aeromonas spp., Pseudomonas aeruginosa, Staphylococcus aureus, Clostridium spp. Or members of the Fecal Streptococcus (Enterococcus) group are detected.

Lucknow Well Supply  
 Chemical Usage  
 2008

Month	Well #4		Well #5	
	Sodium Hypochlorite Usage kg.	Sodium Hypochlorite Dosage mg/L	Sodium Hypochlorite Usage Kg.	Sodium Hypochlorite Dosage mg/L
Jan '08	11.32	3.59	39.88	3.09
Feb '08	8.42	3.54	42.92	3.19
Mar '08	11.73	3.65	45.26	3.22
Apr '08	13.66	3.81	50.78	3.30
May '08	11.45	3.90	42.37	3.39
Jun '08	12.01	3.74	46.23	3.40
Jul '08	19.60	3.61	57.82	4.00
Aug '08	12.42	4.28	51.75	3.38
Sep '08	5.80	3.99	58.65	3.62
Oct '08	1.10	4.97	58.10	3.60
Nov '08	7.04	4.01	51.47	3.43
Dec '08	1.52	12.14	65.83	3.74
Total	116.06	3.82	611.06	3.46

Notes:

- 1) The sodium hypochlorite is used as a source of chlorine
  - 2) The sodium silicate is used as a treatment for iron.
- All quantities of chemicals are listed as the available chemical in the solutions and not the total physical quantities.

Water Works Name: Lucknow Well Supply  
 Year: 2008  
 Serviced Population: 1100  
 Laboratories which Performed Analyses: SGS Lakefield Research

Month	Total Coliform			Fecal Coliform / Escherichia Coli			HPC or MF			BKG			
	No. of Samples Collected	No. of Samples "Unsafe"	No. of Samples "Safe"	No. of Samples Collected	No. of Samples "Unsafe"	No. of Samples "Safe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Collected
Jan '08	15	0	15	0	15	0	10	10	0	0	0	0	0
Feb '08	11	0	11	0	11	0	8	8	0	0	0	0	0
Mar '08	12	0	12	0	12	0	9	9	0	0	0	0	0
Apr '08	15	0	15	0	15	0	15	15	0	0	0	0	0
May '08	12	0	12	0	12	0	10	10	0	0	0	0	0
Jun '08	12	0	12	0	12	0	9	9	0	0	0	0	0
Jul '08	15	0	15	0	15	0	8	8	0	0	0	0	0
Aug '08	12	0	12	0	12	0	9	9	0	0	0	0	0
Sep '08	22	0	22	0	22	0	18	18	0	0	0	0	0
Oct '08	12	0	12	0	12	0	7	7	0	0	0	0	0
Nov '08	12	0	12	0	12	0	10	10	0	0	0	0	0
Dec '08	15	0	15	0	15	0	10	10	0	0	0	0	0
Total	165	0	165	0	165	0	123	123	0	0	0	0	0

INDICATORS OF UNSAFE DRINKING WATER QUALITY:

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INDICATORS OF DETERIORATING DRINKING WATER QUALITY

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- c) samples contain more than 200 background colonies on a total coliform membrane filter analysis;
- d) Aeromonas spp., Pseudomonas aeruginosa, Staphylococcus aureus, Clostridium spp. Or members of the Fecal Streptococcus (Enterococcus) group are detected.