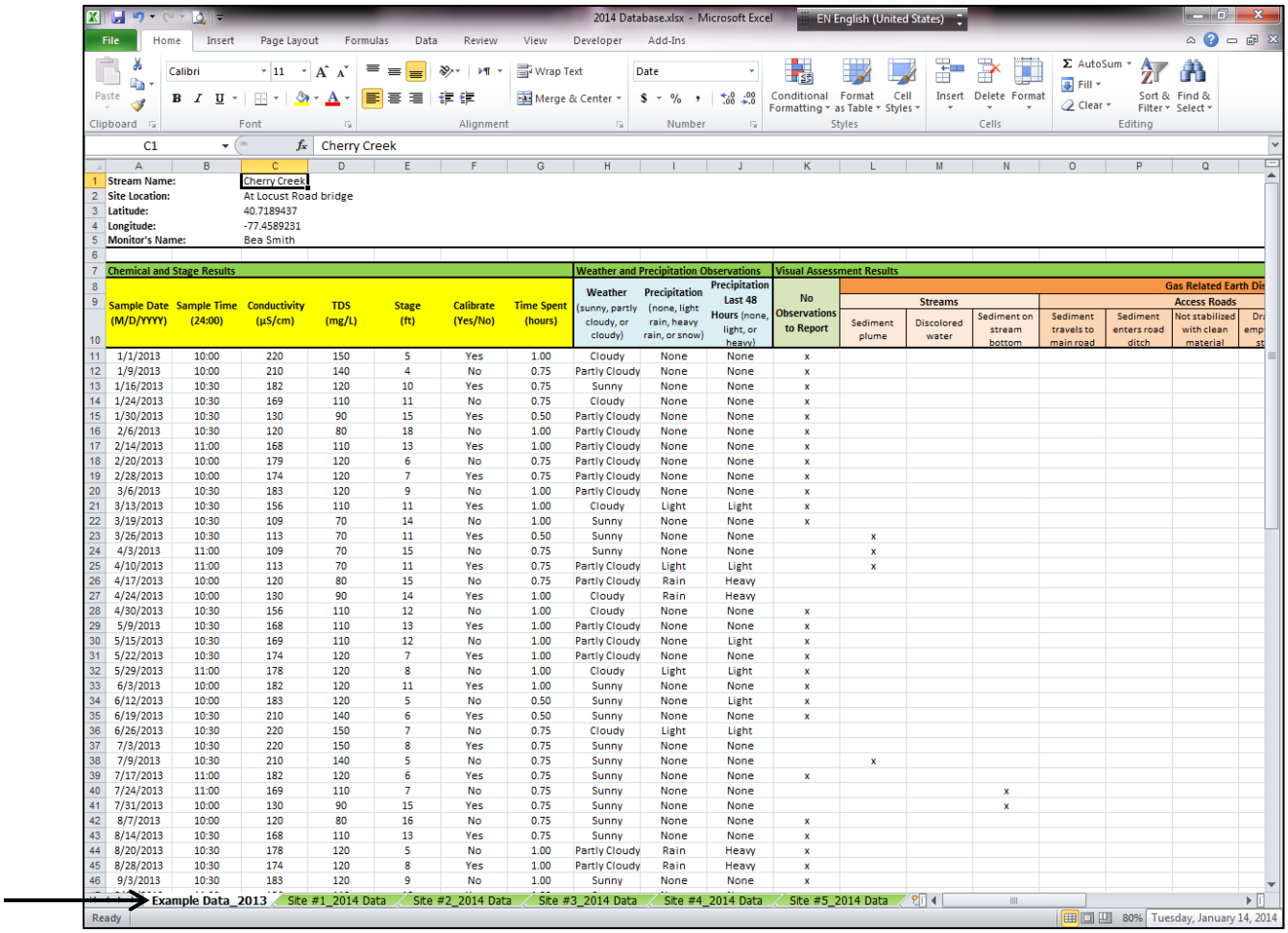
SHALE GAS VOLUNTEER MONITORING PROGRAM
2014 Excel Spreadsheet – Data Entry Directions

The 2014 Excel Spreadsheet contains six worksheets:

- Example Data_2013: Contains example data from 2013 showing where to enter data and the graphing and summary capabilities of the spreadsheet.
- Site #1 – #5: Enter 2014 data for your current monitoring sites. *If you monitor more than five sites, please ask ALLARM for an extended version of the spreadsheet to accommodate all of your information.*

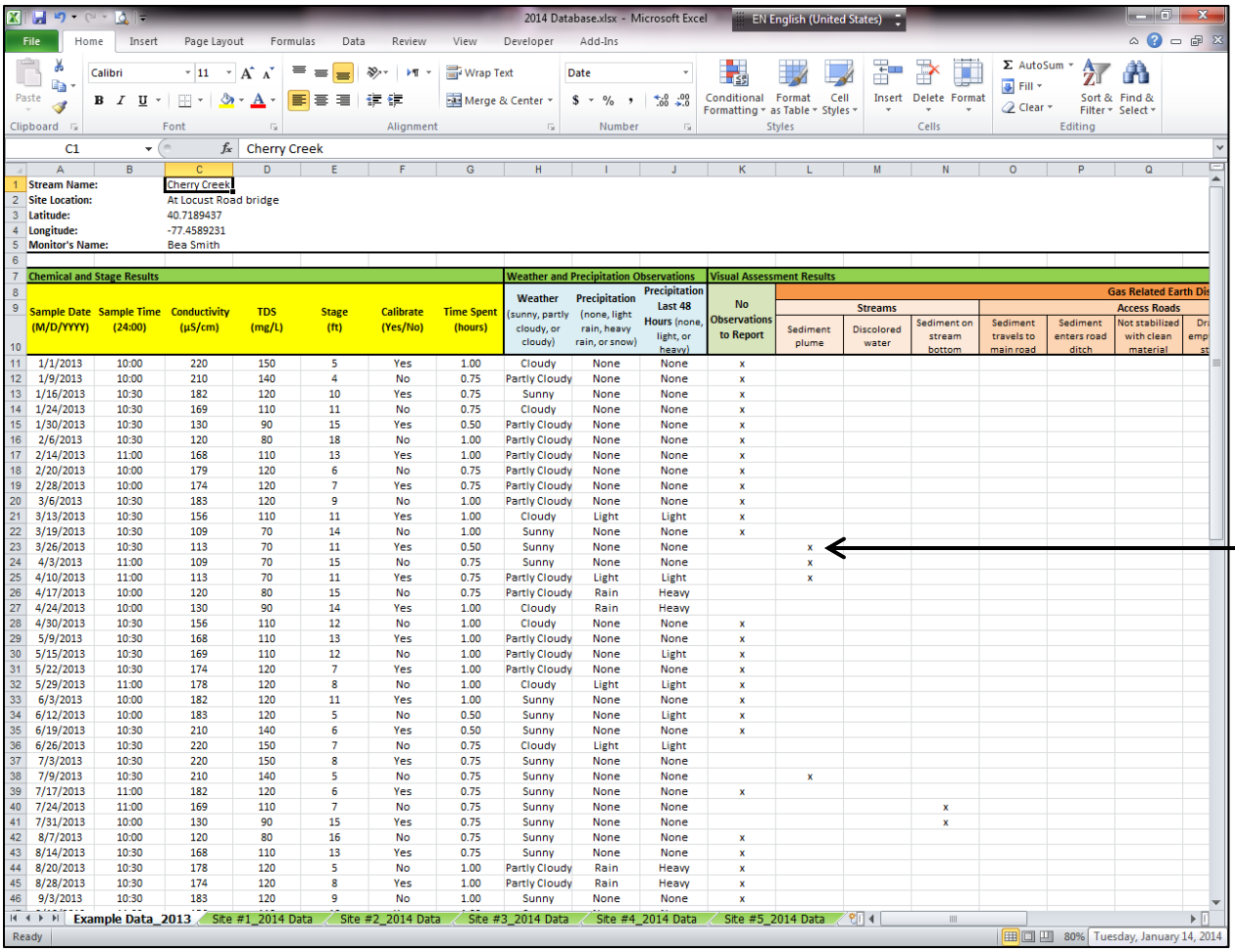


How to enter your chemical and stage monitoring data:

1. Open the Excel spreadsheet on your computer.
2. Click on the correct worksheet for your monitoring site (ex. Site #1, Site #2, etc.).
3. Record the sampling date in column A.
4. Record the sampling time in column B.
5. Record your conductivity value in column C.
6. Record your TDS value in column D.
7. Record your stage value in column E.
8. Record whether or not you calibrated your meter (yes or no) in column F.
9. Record the amount of time you spent monitoring (in hours) in column G.

How to enter your weather and precipitation observations:

1. Record the weather conditions (sunny, partly cloudy, or cloudy) in column H.
2. Record the precipitation (none, light rain, heavy rain, or snow) in column I.
3. Record the precipitation from the last 48 hours (none, light, or heavy rain) in column J.



Stream Name:	Cherry Creek	
Site Location:	At Locust Road bridge	
Latitude:	40.7189437	
Longitude:	-77.4589231	
Monitor's Name:	Bea Smith	

Chemical and Stage Results							Weather and Precipitation Observations			Visual Assessment Results								
											Streams			Gas Related Earth Dis				
Sample Date (M/D/YYYY)	Sample Time (24:00)	Conductivity (µS/cm)	TDS (mg/L)	Stage (ft)	Calibrate (Yes/No)	Time Spent (hours)	Weather (sunny, partly cloudy, or cloudy)	Precipitation (none, light rain, heavy rain, or snow)	Precipitation Last 48 Hours (none, light, or heavy)	No Observations to Report	Sediment plume	Discolored water	Sediment on stream bottom	Access Roads: Sediment travels to main road	Sediment enters road ditch	Not stabilized with clean material	Dri emp st
1/1/2013	10:00	220	150	5	Yes	1.00	Cloudy	None	None	x							
1/9/2013	10:00	210	140	4	No	0.75	Partly Cloudy	None	None	x							
1/16/2013	10:30	182	120	10	Yes	0.75	Sunny	None	None	x							
1/24/2013	10:30	169	110	11	No	0.75	Cloudy	None	None	x							
1/30/2013	10:30	130	90	15	Yes	0.50	Partly Cloudy	None	None	x							
2/6/2013	10:30	120	80	18	No	1.00	Partly Cloudy	None	None	x							
2/14/2013	11:00	168	110	13	Yes	1.00	Partly Cloudy	None	None	x							
2/20/2013	10:00	179	120	6	No	0.75	Partly Cloudy	None	None	x							
2/28/2013	10:00	174	120	7	Yes	0.75	Partly Cloudy	None	None	x							
3/6/2013	10:30	183	120	9	No	1.00	Partly Cloudy	None	None	x							
3/13/2013	10:30	156	110	11	Yes	1.00	Cloudy	Light	Light	x							
3/19/2013	10:30	109	70	14	No	1.00	Sunny	None	None	x							
3/26/2013	10:30	113	70	11	Yes	0.50	Sunny	None	None		x						
4/3/2013	11:00	109	70	15	No	0.75	Sunny	None	None		x						
4/10/2013	11:00	113	70	11	Yes	0.75	Partly Cloudy	Light	Light		x						
4/17/2013	10:00	120	80	15	No	0.75	Partly Cloudy	Rain	Heavy								
4/24/2013	10:00	130	90	14	Yes	1.00	Cloudy	Rain	Heavy								
4/30/2013	10:30	156	110	12	No	1.00	Cloudy	None	None	x							
5/9/2013	10:30	168	110	13	Yes	1.00	Partly Cloudy	None	None	x							
5/15/2013	10:30	169	110	12	No	1.00	Partly Cloudy	None	Light	x							
5/22/2013	10:30	174	120	7	Yes	1.00	Partly Cloudy	None	None	x							
5/29/2013	11:00	178	120	8	No	1.00	Cloudy	Light	Light	x							
6/3/2013	10:00	182	120	11	Yes	1.00	Sunny	None	None	x							
6/12/2013	10:00	183	120	5	No	0.50	Sunny	None	Light	x							
6/19/2013	10:30	210	140	6	Yes	0.50	Sunny	None	None	x							
6/26/2013	10:30	220	150	7	No	0.75	Cloudy	Light	Light								
7/3/2013	10:30	220	150	8	Yes	0.75	Sunny	None	None								
7/9/2013	10:30	210	140	5	No	0.75	Sunny	None	None		x						
7/17/2013	11:00	182	120	6	Yes	0.75	Sunny	None	None	x							
7/24/2013	11:00	169	110	7	No	0.75	Sunny	None	None				x				
7/31/2013	10:00	130	90	15	Yes	0.75	Sunny	None	None				x				
8/7/2013	10:00	120	80	16	No	0.75	Sunny	None	None	x							
8/14/2013	10:30	168	110	13	Yes	0.75	Sunny	None	None	x							
8/20/2013	10:30	178	120	5	No	1.00	Partly Cloudy	Rain	Heavy	x							
8/28/2013	10:30	174	120	8	Yes	1.00	Partly Cloudy	Rain	Heavy	x							
9/3/2013	10:30	183	120	9	No	1.00	Sunny	None	None	x							

How to enter your visual assessment observations:

1. Place in X in any column (K – AD) where you observed the description above. For example, if you observed a sediment plume on March 26, 2013, you would place an X in column L (see picture above).
2. Record whether or not you observed a pipeline disturbance (yes/no) in column AE.
3. Record whether or not you took any photos (yes/no) in column AF.
4. Record whether or not you reported any violations (yes/no) in column AG.
5. If you reported a violation, record who you reported it to in column AH.
6. Once you have recorded all of your results, save the file on your computer.

Graphs and Summaries

The conductivity, stage, and visual observations will automatically be graphed and summarized at the bottom of the spreadsheet. There is no need to enter any information in these cells.