USING ADVANCED SQL TO BUILD A HAULER PROGRAM FOR A WWTP

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JACOBS SOLUTIONS



PROFESSIONAL BACKGROUND

- 9 years experience in wastewater treatment.
 - Operator
 - Operations/Facility Management
 - Regional Operations Support
 - WIMS Administrator
- 6+ years working with WIMS.
- Online SQL Course:
 - Udemy.com The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert, by Colt Steele.

OUR OLD HAULER DATABASE

- Unknown tech support.
- Existing reports were failing, appeared to be bugged at times.
- Could not add new reports.
- Calculation inaccuracies.

STANDARD WIMS APPROACH TO A NEW PROGRAM

- Data tracking
 - I 60 past or current hauling companies
 - Waste type
 - Gallons hauled
 - 280 municipal and industrial wastestreams
 - Price
 - Lab results: BOD, TSS, TKN, metals, etc.
- Result
 - 44,800 variables just to cover gallons of each wastestream per hauling company.
 - The total number of variables required would probably end up being 100,000+.
 - During initial testing of this approach, it would take 15+ minutes to load the variable library.

WHAT IS SQL?

- SQL = Structured Query Language
- Utilizes a series of tables that store different categories of data.
- Each table has one or more key parameter used to link it to other tables.
- We submit queries against the database with specific criteria to pull out a dataset.
 - Show Me X
 Where DATATBL.VARID = VARDESC.VARID and
 VARDESC.NAME = 'Something'

DATATBL	VARDESC	LOCATION
AUDITUSER	AUDITUSER	AUDITUSER
AUDITTIMESTAMP	AUDITTIMESTAMP	AUDITTIMESTAMP
DATESTAMP	VARNUM	LOCID*
CURVALUE	NAME	LOCATION
TEXTVALUE	VARTYPE	DESCRIPTION
VARID*	VARID*	SITEADDRESS
STATUS	UNITS	SITESTATE
FORCED	LOCID*	SITEZIP

SQL-BASED APPROACH TO A NEW PROGRAM

- An alternative to a fully SQL-based approach is using Lookup Tables in conjunction with SQL.
 - System Setup > System Tables > This Facility > Lookup Tables
 - Originally used to store qualitative data (i.e. Company Name, Address, Phone Number, etc.) and can be queried using the TABLE function.
 - The shortcomings of this approach are that it lacked data security and history.
 - We were still using an Excel spreadsheet to store the qualitative data, but would copy/paste it into the Lookup Tables when data was edited.
- SQL-Structured Approach
 - Create variables to act as your table parameters.
 - Use keys to connect data categories together.
 - Heavily reliant on defining the exact data point using a combination of DATESTAMP and TEXTVALUE.
 - Reduced the total number of required variables to from 100,000+ to 112.

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50007 Load Entry	Load Entry - Testing Required	50215 Wastestreams Discharge Site
50008 Load Entry	Load Entry - Comments	50265 Waste Types Comment
50009 Load Entry	Load Entry - Grease SUM	50249 Wastestreams City S0269 Waste Types Testing Frequency
50010 Load Entry	Load Entry - Cost	30221 Wastestreams State
50011 Load Entry	Load Entry - WRS Volume	50223 Wastestreams Zipcode
50012 Load Entry	Load Entry - Waste Type	50225 Wastestreams Facility Phone Number
50021 Load Entry	Load Entry - Costlest	5027 Wastestreams Contact Name
50032 Load Entry	Load Entry - Volume Sum	50231 Wastestreams Email 2
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	02/10/24	Altemose Septic	BU		510,047	Thin House False Road	East in the second	PA	18353
TRUE	02/01/24	Ameys Clean Rite Septic	CO		510,067	442, Val Mountain Mew Dr	All the P	F-A	A Dimension
	02/10/24	Applied Water Management Inc.	EZ	6	510,133				
	02/10/24	Aqua Wastewater Management In	FC		510,136			1	1
	02/10/24	Atlas Disposal Options Inc	HD		510,181			¥1	
	02/10/24	Attn Kaitlyn Howels Boston Beer		A2	510,229	Drive	Re-le	11 III III	18031
	02/10/24	Avalanche Septic Co.	EX		510,130				1
TRUE	02/01/24	B. Newhart & Sons Inc.	CU		510,074	197 COM CHINE	C Store	E min	
TRUE	02/01/24	Baileys Septic Service Inc.	BC		510,020	end of the pille Table	1 miles	74.	10805
FALSE	02/10/24	Barber Septic Service	FZ		510,155				
TRUE	02/02/24	Barbosa Sewer & Drain Inc.	CE	(510,057	www.intercaming.accust	Labertan.	100	18235
TRUE	02/02/24	Baumans Septic Service	TL		510,244	Hinnestand T	Grandsfile	(the	17
TRUE	02/02/24	BDR Solutions LLC (Roto Rooter)	K		510,211	2 Keystmix Industrial Park	Chicon		100012
FALSE	02/10/24	Beaver Valley Environmental LLC	A		510,202				1
TRUE	02/02/24	Berks Septic Service	JC		510,226	112 Failview Drive	inter (ling)	1. 194	19005
TRUE	02/02/24	Bethlehem Sewerage & Excavating Service LLC	GI		510,163	. Brit Stell Street	Bethletiem	1 - 19A	(PROPA)
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WIMS Online Version 8.2.7 - MBRITTENBURG @ "LCA WWTP" on EWQLOVPSQLWIMS1\JACOBS, 1436.OPSLEHIGHWW	
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Dashboard Options: 🛅 Open 🛧 Home < Back 📿 Refresh 🖶 Print 🧪 Edit 🧇 Show 🕔 Recent	< Feb 2024 >

Click Here to Edit Wastestream Information

Hauler Dashboard

Active	Edit Date	WS Code	Generator Br	oker ID	Description	Waste Type	Discharge Site	SIC Code	Facility Address	F
TRUE	01/01/24	110C_A	Coca Cola	A1	syrup	04c	F,G: HSW	2227	1551 Schertz 90	184
TRUE	01/01/24	110C_B	Coca Cola	A1	syrup	04c	F,G: HSW	2687		
TRUE	01/01/24	110C_C	Coca Cola	A1	syrup spill 2/23/23	04a	A: Std	203P	PECT Scheniz Ro	
TRUE	01/01/24	110C_D	Coca Cola	A1	pit clean-out	04a	A: Std	2687	TSM CHARGER AR	19374
TRUE	01/01/24	120B_A	Boston Beer	A2	Carbon Tank Waste	05c	F,G: HSW	0000	TROD Peno Cri	Utre
TRUE	01/01/24	130S_A	Ocean Spray		final juice product	04c	FEB		ART C. Jose Press	
TRUE	01/01/24	W001_A	A&B Stainless Valve, Inc.	XX	wash water from stainless valves	04a	A: Std	33	The second second	i No
FALSE	01/01/24	W002_A	Akcros (Veltis)	SS	Sodium Nitrate wash water	04a	A: Std		Service of the	1
	01/01/24	W003_A	Avery Dennison		Adhesive waste water	04a	A: Std	2672	每 Phile Am Trees	
	01/01/24	W004_A	Coopers Creek Chemical Corporation	XX	Crude coal tar distillation water	04a	A: Std	2885	PRIC River Road	
TRUE	01/02/24	W005_A	EPS Materials - Sherwin Williams		Water with Latex Polymers	04a	A: Std	02891		3/18
FALSE	01/02/24	W006_A	Johnson Matthey, Inc		metal cleaning washwater	04a	A: Std		FED1 KIAD Road	V
TRUE	01/02/24	W007_A	MacTac		Adhesive washwater	04a	A: Std	26711	602 Es	100
TRUE	01/02/24	W008_A	Mauser USA, LLC		Air compressor condensate water	04a	A: Std	2855	7 OleFaddan Dosd	cas
TRUE	01/02/24	W009_A	United Envelope		Ink wastewater	04a	F,G: HSW	1.23.6	150 Industrial Darbinson	
TRUE	01/02/24	W010_A	Westrock Converting Company		Papermill wastewater	04a	A: Std	and the second	PT Saulie	
TRUE	01/02/24	W011_A	Euclid Chemical Co.		Concrete additive washwater	04a	A: Std	27274	5 608(0s(0) 757641	Eas
TRUE	01/02/24	W012_A	Venezia Transport, Inc.		Non-food salt/starch washwater	04a	A: Std		PO Box 909	(Ret
FALSE	01/02/24	W013_A	Balchem		Food processing washwater	04a	A: Std		409 Ebst R683	
TRUE	01/02/24	W014_A	Clifford Hill Sanitation Service Inc.		Leachate	06	A: Std	8953	25 BERGED	
FAILEE	01/03/24	W015 A	Brenntag		Chemical Wastewater	04a	A: Std	124	the second se	

🛞 WIMS Onlin	ne Version 8.	2.7 - MBRITTENBURG								
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Dashboard O	ptions: 🛅	Open 🟫 Home 🔙 Back	C Refresh 🖶 Pr	int 🧪 Edit 🧇	Show (S) Recent	< Feb 20	24 >			
[Click H	ere to Edit Waste Type	Information	1	Hauler Da	ashboard				
Edit Date	Waste Type	Description	Effective Date	BOD Low Limit	BOD High Limit	TSS Low Limit	TSS High Limit	Comment	Volume Discount	Testing Frequency
01/01/24	01	Holding	2/1/2018		1				FALSE	
01/01/24	02	Septic	2/1/2018	1					FALSE	
01/01/24	03a	Domestic Waste <2.5%	2/1/2018			0	25,000	< 25,000 TSS	FALSE	Annually
01/01/24	03b	Domestic Waste >2.5%	2/1/2018			25,001	30,000	20% more for every 1% TS >2.5%	FALSE	Annually
01/01/24	04a	Industrial Wastewater - Low	2/1/2018	0	10,000	0	25,000	< 25,000 TSS	TRUE	Semi-Annually
01/01/24	04b	Industrial Wastewater - Med	2/1/2018	10,001	20,000	0	25,000	< 25,000 TSS	TRUE	Semi-Annually
01/01/24	04c	Industrial Wastewater - High	2/1/2018	20,001	25,000	0	25,000	Case by Case	TRUE	Semi-Annually
01/01/24	05a	Industrial Sludges	2/1/2018	0	20,000	25,001	50,000	25000-50000	TRUE	Semi-Annually
01/01/24	05b	Industrial Sludges - High	2/1/2018	0	20,000	50,001	65,000	50001-60000	TRUE	Semi-Annually
01/01/24	05c	Industrial Sludges - Special	2/1/2018	0	20,000	65,001	6 60 C	Case by Case	TRUE	Semi-Annually
01/01/24	06	Misc Sewage & Septage	02/01/2018					Case by Case	FALSE	Semi-Annually
01/01/24	07	Grease Traps	02/01/2018						FALSE	
01/01/24	07a	Grease - Special	02/01/2018					Case by Case	FALSE	
01/01/24	08	Portable Toilets	02/01/2018						FALSE	
01/01/24	09	Car Wash	02/01/2018	5	2		S		FALSE	
01/01/24	11	Categorical - EPA Waste Types	02/01/2018	3				Case by Case	FALSE	Quarterly

ile Β	iler Lab Entry (Custon dit Format Help	n Data Entry Form KevPad)															
			Start Date:	08/23/2024	12:00 AM	▼÷ Go			Lo	ogbook 🧳 🗙		efresh						
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4	A D	E	F	G	Н	1	J	K	L	М	N	0	Р	Q	R	S	T	
1																		
2		New Lab Re	sults Entries															
3		Set Date Ab	ove to Desired	Entry D	Date													
4																		
5		WS Code	Gen Results?	COD	BOD	TSS	TKN	Waste Type	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	
6			~			6			6	6							-	8
7			~				8		5	ř.								_
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11			~														<u> </u>	_
30						_		_									-	
31		Show R	esults for the	Last	365	Days	Or Bet	ween Dates	Start		End		A	nd Search fo	r Wastestream		-	
34	Date	WS Code	Gen Results?	COD	BOD	TSS	TKN	Waste Type	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	-
35	7/24/2024	W010 A						04a	<0.050	0.015	0,192	0.291	0.164	0.0025	0.08	0.204	<0.25	_
36	7/22/2024	W019 A						04a	<0.020	< 0.002	0.061	0.512	0.033	<0.0020	<0.00	<0.020	<0.10	_
37	7/19/2024	w035 f	1				-	04a	0.206	0.028	0.232	3.730	0.312	< 0.0020	0.05	0.281	<0.50	_
38	7/17/2024	W081 A		3,300	1,850	610			-									
39	7/16/2024	w035 h						05a	<0.020	0.039	<0.020	0.068	0.168	<0.0025	<0.00	0.094	<0.10	
40	7/3/2024	W035 E		183,000	43,833	106,120	1,554	05a										
41	6/28/2024	X024		21,700	4,400	16,760	1,358	03a										
42	6/21/2024	X030		8,400	3,480	10,980	392	03a										
43	6/5/2024	W020_A		88,000	40,250	354	644	04a	<0.200	< 0.020	<0.200	<0.200	0.576	< 0.0017	0.08	<0.200	<1.00	
44	6/4/2024	W005_A		81,900	3,000	640	574	04a	< 0.500	< 0.050	<0.500	<0.500	< 0.500	< 0.0050	<0.10	< 0.500	<2.50	
45	6/1/2024	W039_B		2,300	1,533	6,750	126	05a										
46	5/31/2024	W039_B						05a	<2.500	<0.250	<2.500	<2.500	<2.500	<0.0017	<0.50	<2.500	<12.50	
47	5/29/2024	X043		23,000	6,533	21,200	252	03b	0.606	<0.050	< 0.500	3.840	<0.500	0.0102	<0.10	<0.500	<2.50	
48	5/23/2024	X157		11,800	2,350	11,200	756		<0.100	< 0.010	0.123	9.340	0.112	<0.0017	0.04	0.150	<0.50	

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A	C	L	J	К	L	M	S	T	U			
1					Description							
2	CATID	Cate	gory				R	ates (\$/ga	l)			
3				B	OD	TS	4	40.045				
5	01	Hole	ding	5	-	19 (19 (19 (19 (19 (19 (19 (19 (19 (19 (e	\$0.045				
6	02	Sep	otic		. 3	-	2	\$0.045				
7	03a	Domestic W	/aste <2.5%	8	54 	<2.5%	53	\$0.04				
8	03b	Domestic W	/aste >2.5%		- //	2.5 - 3%	5) 	\$0.04		5 10000		
9	04a	Industrial Was	stewater - Low	<10,00	00 mg/L	<2.5%	a	\$0.03				
10	04b	Industrial Was	tewater - Med	10,001 - 2	0,000 mg/L	<2.5%		\$0.045				
11	04c	Industrial Was	tewater - High	20,001 - 2	5,000 mg/L	<2.5%	Ca	ase by Cas	se			
12	05a	Industria	I Sludges	<20,00	00 mg/L	2.5 - 5%	() ()	\$0.065				
13	056	Industrial Sl	uages - High	<20,00	00 mg/L	5 - 6.5%	-	\$0.11				
14	05c	Industrial Slue	ages - Special	<20,00	00 mg/L	>6.5%	Ca	ase by Cas	se			
15	06	Misc Sewag	e & Septage				Ca	ase by Cas	se			
16	07	Grease	e Iraps	8	-	-	-	\$0.12				
17	0/a	Grease	- Special	5	-	÷	Ca	ase by Cas	se			
18	08	Portable	Toilets	1	-1	-		\$0.069				
19	09	Car \	Wash	2		7	\$0.065					
20	11	Categorical - EF	A Waste Types		-	-	Ca	ase by Cas	se			
21												
22			Annual Was	testream Repo	ort 2023							
24	Waste Stream Code	Gallons YTD	BOD mg/L	TSS mg/L	TKN mg/L	Current Waste Type	Suggested Waste Type					
121	W060_B					04a						
122	W061_A	5.		16		04a	5					
123	W062_A			6 13	8) 14	04c						
124	W063_A	2,500	400.0	1800.0	25.0	04a						
125	W065_A	4,800	113.0	480.0	140.0	04a						
126	W066_A			×		04a						
127	W067_A	228,500	13000.0	52467.0	2100.0	05a	05b					
128	W068_A					04a						
129	W069_A					05a						
130	W070_A					04a	5.					
131	W071_A	41,450	12150.0	69933.0	532.0	05c						
132	W073_A	12,200	7975.0	5908.5	1792.0	04b	04a					
133	W074_A					04a						
L34	W075_A	5.				04a	53 					
135	W076_A	17,400	33000.0	7920.0	100.0	04c	04c					
136	W077_A	150,415	130444.3	13220.0	350.0	04c	04c					
137	W078_A	185,900	61000.0	29933.0	245.0	04c	05a					
138	W079 A	15 400	14108 5	19030.0	1043.0	04b	-					

🕉 Wa	stestream	n Price Update	(Custom Data Entry	Form)											
		rmat Help	KeyPad 1011111111111111111111111111111111111	Start Date:	08/23/2024 12:00 AM	▼÷ Go				Logbook 🧳 💥	202	Refresh			
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3		WC Code	Las	t	Curre	ent	New		WS Code	Las	t	Curre	ent	New	
4		ws code	Effective Date	Price	Effective Date	Price	Price		ws code	Effective Date	Price	Effective Date	Price	Price	
5		01	01/01/18	0.020	01/01/23	0.045		2002	W039_D	2		01/01/18	0.030		
6		02			01/01/18	0.045	8	5.080	W039_E			07/01/24	0.030	6	30.000
7		03a			01/01/18	0.040	0		W041_A			01/01/18	0.030		
8		03b			01/01/18	0.040		0	W041_B	01/01/18	0.045	03/01/24	0.100		
9		04a			01/01/18	0.030	2		W041_C			01/01/18	0.453		
10		04b			01/01/18	0.045		11000	W042_A	01/01/18	0.030	02/01/24	0.065	0	
11	-	04c	0		10				W043_A	12		01/01/18	0.045	00	
12		05a			01/01/18	0.065			W044_A	01/01/18	0.304	02/01/24	0.180		
13		05b	18 15		01/01/18	0.110	53 5	- 0000	W045_A	0) 10		01/01/18	0.030	0	1
14		05c					8	6,033	W046_A	01/01/18	0.030	02/01/24	0.045	6	1200
15		06					0		W047_A			01/01/18	0.030		
16		07			01/01/18	0.120		0	W048_A			01/01/18	0.030		
17		07a							W048_B			01/01/18	0.030	10 mm	
18		08			01/01/18	0.069		1275	W049_A			01/01/18	0.030	0	
19		09	3		01/01/18	0.065			W050_A	12 12		01/01/18	0.030	8	
20		11							W052_A			01/01/18	0.030		
21		110C_A	01/01/18	0.725	01/01/22	0.725			W060_A	0) 10		01/01/18	0.030	0	- 1000
22		110C_B	01/01/18	0.553	01/01/22	0.553	39.	6,008,8	W060_B			01/01/18	0.146	6	
23		110C_C							W063_A			01/01/18	0.030		
24		110C_D			12/18/23	0.030		0.000	W067_A	01/01/18	0.065	02/01/24	0.110		1
25		120B_A	01/01/18	0.409	01/01/22	0.409			W069_A			01/01/18	0.065	20	
26		130S_A			3	0.000404.00		1.000	W070_A			01/01/18	0.030	0	
27		W001_A	01/01/18	0.030	01/01/22	0.030		0.000	W071_A	· · · · · · · · · · · · · · · · · · ·		01/01/18	0.110		
28		W005_A	01/01/18	0.030	01/01/22	0.030			W073_A	02/01/24	0.300	04/02/24	0.030		
29		W007_A	01/01/18	0.030	01/01/22	0.030	18. 		W076_A	0		01/01/18	0.080	ß	1000
30		W008_A	01/01/18	0.030	01/01/22	0.030		0.008	W077_A	03/02/23	0.030	08/01/24	0.300	8	7 386
31		W009_A	01/01/18	0.030	01/01/22	0.030	0	1000	W078_A	02/01/23	0.170	02/01/24	0.220	2	1000
32		W010 A	01/01/18	0.030	01/01/22	0.030		0.000	W079 A	03/15/23	0.030	03/23/23	0.045	8	

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🌾 Ha	uler Load Entry (Custom Data Entr	y Form)								
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4	A	В	С	D	E	F	G	J	к	N	0
1	Hau	ler Load E	Intry	Date	08/06/24						
2			aily Statistic								
2	Number of	Total	Grease	3 1//D 9	WDS						
3	Loads	Gallons	Gallons	Loads	Gallons						
4	38	164530	10700	0	0						
-											
6	Hauler ID	Load	WS Code	Volume	Discharge	Testing?	Comments	Generator Name	Waste Type	Price	Cost
		Number	(All Types)		Sile						
7	KG 🗸	1	W021_C	6000	D 🗸	~		Grand Central Sanitary Landfill, Inc.	06	0.055	330.00
8	CE 🗸	2	02	5000	B	~		Septic	02	0.045	225.00
9	AH 🗸	3	W020_A	5500	WRS: I,J 🗸	~		Royal Chemical Co.	04a	0.030	165.00
10	AO 🗸	4	07	2800	C ~	~		Grease Traps	07	0.120	336.00
11	BN 🗸	5	W019_A	6300	B	~		Givaudan Fragrance Corp.	04a	0.030	189.00
12	AJ 🗸	6	01	2000	A v	~		Holding	01	0.045	90.00
13	AJ 🗸	6	02	1000	A v	~		Septic	02	0.045	45.00
14	AH 🗸	7	W029_A	4300	B ~	~		Fed Chem LLC	11	0.150	645.00
15	KG 🗸	8	W021_C	6000	D	~		Grand Central Sanitary Landfill, Inc.	06	0.055	330.00
16	CH 🗸	9	01	3500	B >	~		Holding	01	0.045	157.50
17	CH 🗸	9	02	1500	B V	~ .	6	Septic	02	0.045	67.50
18	AM ~	10	07	2000	С ~	~		Grease Traps	07	0.120	240.00
19	C0 ~	11	01	750	A ~	~		Holding	01	0.045	33.75
20	C0 ~	11	02	2250	Α 🗸	~		Septic	02	0.045	101.25
21	AB 🗸	12	X011	4500	B v	~		Centerport Municipal Waste Treatment Plant	03a	0.040	180.00
22	AH 🗸	13	W052_A	4500	B v	~		Linde Gas & Equipment, Inc.	04a	0.030	135.00
23	IU 🗸	14	07	4500	C ~	~		Grease Traps	07	0.120	540.00

 Spread Report View - Allstate Septic Systems LL 	P I&R					🛱 Sprea	d Report View - Allstate Se	ptic Systems LLP 18d	R						
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1				767	5 Industrial Boulevard	52									
					Allentown, PA 18106	53									
					Tel 610.935.9782				Lehigh (County Authori	ty Wastewate	r Plant			
					Fax 610.395.6623					7676 Industria	l Boulevard				
						54				Allentown,	PA 18106				
Lehigh Count	Authority									(610) 395 Hauler B	-9782 Recan				
Lenigh County	Admonty									- D - 1 - 1 - 7/1 /2/		~~~			
					Invoice Number:	55	Haulas ID		lim	e Period: //1/20)24 to //31/2	J24	Callana	C	
Alisteth Septic System	s LLP			١	VW - 24 - 07004	50	Hauler ID:		- 1.1.1			Haulan	207 001	¢14 660 f	2
5187 Berry Hollow Ros	h				23-Aug-24	50	5167.1		ad a state			Broker:	207,001	\$14,005.5	12
Bandor PA 18010						50	51071	19013				Total:	287 081	\$14 669 5	2
			Acco	unt Num	per: 510004	60		1 200 20				*Cost does not	t include pas	t due balanc	es*
						61									
				-					Gandars				Manifast		
						62	Date	Load No.	Gen/WS Code	Waste Type	Gallons	Fixed Cost	Cost	Broker	
						62									_
						63	7/1/2024	14	01	01	1.000	\$0.04E	\$4E.00		
Description					Amount	64	7/1/2024	14	V045	030	5,000	\$0.045	\$45.00		
Invoice for weste reasi	und at the Labiah County			\$	14 669 52	66	7/1/2024	10	X045	03a	5,000	\$0.040	\$200.00		
	Ved at the Lenigh County			Ψ	11,000.02	67	7/1/2024	20	X045	03a	4 500	\$0.040	\$180.00		
Authonity Wastewater P	riant under the waste					68	7/1/2024	24	01	01	2,000	\$0.045	\$90.00		
nauler program.						69	7/1/2024	26	01	01	3.500	\$0.045	\$157.50		
Time period for loads r	eceived					70	7/1/2024	33	X045	03a	5,000	\$0.040	\$200.00		
Time period for loads i	eceived					71	7/1/2024	34	X045	03a	5,000	\$0.040	\$200.00		
From: 07/01/24	To: 07/31/24					72	7/2/2024	7	07	07	4,250	\$0.120	\$510.00		
						73	7/2/2024	16	01	01	500	\$0.045	\$22.50		
						74	7/2/2024	21	01	01	2,500	\$0.045	\$112.50		
						75	7/2/2024	30	X047	03a	5,000	\$0.040	\$200.00		
Number of Entries	82					76	7/3/2024	16	X022	03a	5,000	\$0.040	\$200.00		
Gallons Received	287 081					77	7/3/2024	30	07	07	2,500	\$0.120	\$300.00		
Galions Received	201,001					78	7/3/2024	34	X022	03a	5,000	\$0.040	\$200.00		
Current Balance Due				\$	14,669.52	79	7/3/2024	44	01	01	1,500	\$0.045	\$67.50		
Values Discount				/0		80	7/6/2024	3	01	01	5,000	\$0.045	\$225.00		
				(⊅	<u> </u>	81	7/8/2024	6	01	01	4,000	\$0.045	\$180.00		
Subtotal				\$	14,669.52	82	7/9/2024	22	07	07	3,250	\$0.120	\$390.00		
						83	7/10/2024	19	X047	03a	5,000	\$0.040	\$200.00		
Previous Unpaid Balan	ce / Credit Due			\$		84	7/10/2024	28	01	01	1,000	\$0.045	\$45.00 \$125.00		
Total Due				\$	14 669 52	85	7/10/2024	20	V002	020	1 750	\$0.045	\$70.00		
				¥	11,000.02	87	7/10/2024	29	01	01	1,750	\$0.040	\$45.00		
						88	7/11/2024	7	07	07	500	\$0.120	\$60.00		
Discount will not appl	v if Total Due balance is r	ot paid within	1 25 da	vs of In	voice Date	89	7/11/2024	8	X086	03a	5,000	\$0,040	\$200.00		
				.,		90	7/11/2024	15	X086	03a	5,000	\$0.040	\$200.00		
Make Check Payable to:		ehigh County A	Authorit	y		91	7/11/2024	17	X086	03a	5,000	\$0.040	\$200.00		
	F	O. Box 3348				92	7/11/2024	25	X086	03a	5,000	\$0.040	\$200.00		
	Δ	llentown PA 1	8106-0	348		93	7/11/2024	31	X086	03a	5,000	\$0.040	\$200.00		
	~	ttn: Accounting	1 10010			94	7/12/2024	11	X022	03a	5,000	\$0.040	\$200.00		
		aan. Accounting				95	7/12/2024	26	01	01	1,500	\$0.045	\$67.50		
4						96	7/12/2024	26	02	02	2,000	\$0.045	\$90.00		
4						97	7/12/2024	33	01	01	3,000	\$0.045	\$135.00		
<u> </u>						98	7/12/2024	53	X020	03a	4,500	\$0.040	\$180.00		
						99	7/15/2024	25	X045	03a	5,000	\$0.040	\$200.00		
2						100									

BENEFITS

- Increased data security with WIMS' audit trail.
- Reliable data & calculations.
- Improved reporting abilities and customization.
- Easily accessible tech support due to a collective knowledge of WIMS.
- A hopeful future:
 - Use of "External Data Source Setup" will allow us to use SQL queries as variable formulas, allowing for automatic calculation of data rather than manual.

QUESTIONS?

- Michael Brittenburg WIMS System Administrator Jacobs Solutions
- Email: <u>Michael.Brittenburg@Jacobs.com</u>
- Phone: (484) 347-2689
- Online SQL Course:
 - Udemy.com The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert, by Colt Steele.