Entity-Relationship Diagram

PERMIT

	Column	Type
PK1	PERMIT_NUMBER_PREFIX	varchar
PK2	PERMIT_NUMBER	BigInt
FK	WASTE_GENERATOR	varchar
FK	MATERIAL_CODE	int
FK	CUS_ACCNUM	varchar
	FACILITY_CODE	varchar
	PERMIT_APPLICATION_DATE	date
	ESTIMATED_VOLUME	float
	UNITS	varchar
	ESTIMATE_LOADS	int
	FREQUENCY	varchar
	COMMENTS	varchar
	CONTAMINATED_LOADS_DATE	date
	CONTAMINATED_LOADS_COMMENTS	varchar
	PERMIT_SENT_TO_OPERATOR_AND_WMF	varchar
	PERMIT_SAVED_ON_SERVER_AND_FILED	boolean
	HARD_COPY_PERMIT_SAVED_IN_FILE	boolean
	APPROVED_BY	varchar
	PERMIT_CLOSED_CARD_PERMISSIONS_REVOLKED	varchar
	PERMIT_STATUS	varchar
	PERMIT_TYPES	varchar
	PERMIT_FEE	float
	EXPIRATION_DATE	date
	APPLICATION_FEE_INVOICED	boolean
	CONTAMINATED_LOADS	int
	APPROVED_TIPPING_DATE	date
	APPLICANT_NAME	varchar
	APPLICANT_PHONE	varchar
	APPLICANT_EMAIL	varchar
	HAULER	varchar
	HAULER2	varchar

Note annotations (left side, attached to PERMIT):
- 5360-09-02-, 5360-08-, 5360-09-01-, * *
- Bags, Imperial Gallon, Kg, lbs, Litre, m^3, Tonnes, US Gallon, yd^3
- Once, Bi-Monthly, Daily, Weekly, Bi-weekly, Monthly
- yes, n/a, pending
- Abandoned, Issued, Refused, Tipping date not schedule
- Semi-annual, Single-Event, Multi-Day, Scheduled

CUSTOMER

	Column	Type
PK	CUS_ID	int
	CUS_ACCNUM	varchar
	CUS_COMPNAME	varchar
	CUS_FNAME	varchar
	CUS_LNAME	varchar
	CUS_PHONE	varchar
	CUS_ALT_PHONE	varchar
	CUS_EMAIL	varchar
	CUS_ALT_EMAIL	varchar
FK	CUS_ADDRESS (ADDR_ID)	varchar
FK	CUS_ALT_ADDRESS (ADDR_ID)	varchar
	CUS_FR	boolean
	CUS_TTS	boolean
	CUS_MEZ	boolean
	CUS_DEACTIVATED_COUNT	int
	CUS_NOTE	text

TRANSACTION

	Column	Type
PK	TRANS_NUM	varchar
FK	TRANS_ACCOUNT_NU	varchar
FK	TRANS_VEHICLE_NUMBER	varchar
	TRANS_COMPLETION_DATE	date
	TRANS_COMPLETION_TIME	time
	TRANS_LOAD_NUM	int
	TRANS_NETWEIGHT	float
	TRANS_TOTALPRICE	float
	TRANS_HAULER	varchar
	TRANS_DRIVER_EXEPT_STATUS	boolean
FK	VALID_IMPORT_CODE	varchar
	TRANS_CONTRACT	varchar
	TRANS_OPERATION	varchar
	TRANS_STATUS	varchar
	TRANS_ISMANUAL	boolean
	TRANS_HASEXCEPTION	boolean
	TRANS_KEYFIELD	varchar
	TRANS_SOURCE_TYPE	varchar
	TRANS_ADJUSTED_PRICE	float
	TRANS_FACILITY_CODE	varchar
	TRANS_TONNES	float
	TRANS_CUBIC_METERS	float
	TRANS_IN_SERVICE_AREA	varchar
	TRANS_ASC_NON_ASC	varchar
	TRANS_FUNCTION	varchar
	TRANS_CURBSIDE_AREA	varchar
	TRANS_CURBSIDE_STREAM	varchar
	TRANS_ANNUAL_REPORTING_GROUP	varchar
	TRANS_ANNUAL_REPORTING_SOURCE	varchar
	TRANS_SERVICE_AREA	varchar

ADDRESS

	Column	Type
PK	ADDR_ID	int
	ADDR_STREET	text
	ADDR_CITY	varchar
	ADDR_PROV	varchar
	ADDR_POCODE	varchar

WASTE_SOURCE

	Column	Type
PK	WASTE_GENERATOR	varchar
	WASTE_SOURCE_SITE_ADDRESS	varchar

MATERIAL

	Column	Type
PK	MATERIAL_CODE	int
	MATERIAL_TYPE	varchar

VEHICLE_BADGE

	Column	Type
PK	LICENSE_PLATE	varchar
FK	CUS_ACCNUM	varchar
	DESCRIPTION	varchar
	BADGE	varchar
	NOTES	varchar
	NOTES_2	varchar

VALIDATION

	Column	Type
PK	VALID_IMPORT_CODE	varchar
	VALID_CODE	int
	VALID_MATERIAL_NAME	varchar
	VALID_IN_AND_OUT	varchar
	VALID_AIRSPACE_OR_NONAIRSPACE	varchar
	VALID_FUNCTION	varchar
	VALID_FACILITY	varchar
	VALID_MATERIAL_GROUP	varchar
	VALID_CURBSIED_AREA	varchar
	VALID_CURBSIDE_STREAM	varchar
	VALID_FR_ANNUAL_REPORTING_GROUP	varchar
	VALID_FR_ANNUAL_REPORT_WASTE_TYPE	varchar
	VALID_TIPPING_RATE	float
	VALID_SERVICE_AREA	varchar

Invoice

	Column	Type
PK	INVOICE_NUMBER	varchar
FK	CUS_ACCNUM	varchar
	INVO_FIRST_NAME	varchar
	INVO_LAST_NAME	varchar
FK	ADDR_ID	int
	INVO_DATE	date
	INVO_AMOUNT_DUE	float
	INVO_NUM_OF_INCIDENT	int
	INVO_NOTES	varchar
	INVO_TYPE	char

Note annotation attached to Invoice: Y,N

Disjoint specialization: **d** invoice_type

Branches: "Y" → Paid_invoice, "N" → Unpaid_invoice

Paid_invoice

	Column	Type
PK,FK1	INVOICE_NUMBER	varchar
	PAID_INVO_PAYME...	date

Unpaid_invoice

	Column	Type
PK,FK1	INVOICE_NUMBER	varchar
	PLATE	varchar
	REASON	varchar

HWY37N_HAZELTON

PK		
	HWY_HAZ_DATE	date
	HWY_HAZ_EST_OCC_TONNES	float
	HWY_HAZ_OCC_BIN_BILLING	float
	HWY_HAZ_SCRAP_METAL_TONNES	float
	HWY_HAZ_TIRE_COUNTS	float
	HWY_HAZ_TIRE_COLLECTION_CHARGES	float
	HWY_HAZ_FREON_REMOVAL_CHARGES	float
	HWY_HAZ_MARR_INCOME	float
	HWY_HAZ_ABC_INCOME	float

HWY37N_KITWANGA

PK		
	HWY_KIT_DATE	date
	HWY_KIT_OCC_TONNAGE_EST	float
	HWY_KIT_PPP_TONNAGE	float
	HWY_KIT_OCC_HAULING_BIN_RENTAL	float
	HWY_KIT_PPP_HAULING	float
	HWY_KIT_RECYCLE_BC_TONNAGE	float
	HWY_KIT_CESA_TONNES	float
	HWY_KIT_EPRA_TONNES	float
	HWY_KIT_LIGHT_RECYCLE_COUNTS	float
	HWY_KIT_PAINT_RECYCLE_COUNTS	float
	HWY_KIT_SCRAP_METAL_MARR_INCLUDED	float
	HWY_KIT_LAB_TONNES	float
	HWY_KIT_TIRE_COUNTS	float
	HWY_KIT_TIRE_CHARGES	float
	HWY_KIT_FREON_REMOVAL_CHARGES	float
	HWY_KIT_RECYCLE_BC_INCOME	float
	HWY_KIT_CESA_INCOME	float
	HWY_KIT_EPRA_INCOME	float
	HWY_KIT_LIGHT_RECYCLE_INCOME	float
	HWY_KIT_PAINT_RECYCLE_INCOME	float
	HWY_KIT_MARR_INCOME	float
	HWY_KIT_LAB_INCOME	float
	HWY_KIT_TOTAL_TONNES_EPR	float
	HWY_KIT_NET_INCOME	float

HWY37N_STEWART

PK		
	HWY_STE_DATE	date
	HWY_STE_OCC_TONNES	float
	HWY_STE_BANDSTRA_OCC_HAULING	float
	HWY_STE_OCC_TOTAL	float
	HWY_STE_RECYCLE_BC_TONNAGE	float
	HWY_STE_CESA_TONNES	float
	HWY_STE_EPRA_TONNES	float
	HWY_STE_LIGHT_RECYCLE_COUNTS	float
	HWY_STE_PAINT_RECYCLE_COUNTS	float
	HWY_STE_SCRAP_METAL_MARR_TONNE_EST	float
	HWY_STE_LAB_TONNES	float
	HWY_STE_TIRE_COUNTS	float
	HWY_STE_TIRE_CHARGES	float
	HWY_STE_FREON_REMOVAL_CHARGES	float
	HWY_STE_RECYCLE_BC_INCOME	float
	HWY_STE_CESA_INCOME	float
	HWY_STE_EPRA_INCOME	float
	HWY_STE_LIGHT_RECYCLE_INCOME	float
	HWY_STE_RECYCLE_INCOME	float
	HWY_STE_MARR_INCOME	float
	HWY_STE_LAB_INCOME	float
	HWY_STE_TOTAL_TONNES_EPR	float
	HWY_STE_NET_INCOME	float

Thornhill, Rosswood, Hazelton, Kitwanga, Meziadin, Iskut, steward

ABC_RECYCLING

PK		
	ABC_DATE	date
	ABC_LOCATION	varchar
	ABC_MATERIAL	varchar
	ABC_NET_WEIGHT_IN_POUND	float
	ABC_TOTAL_NET_WEIGHT_IN_TONNAGE	float
	ABC_TOTAL_METRIC_TON	float
	ABC_COMPLETED	boolean